Cement Creek Data

Lab Name	Lab. Sampl	Lab Job #	BASIN	NEW SITE	STRM_DE	SITE DES	NEW SITE	OLD SITE D
	Lab. Desigr	Lab. Projec	Report I. D.					mostly WC
			CC	**Cement G**	Cement		**CC48**	C48
			CC	**Cement G**	Cement		**CC48**	C48
			CC	**Cement G**	Cement		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDOW			CC	**Cement G**	Gauging Station		**CC48**	C48
CDOW			CC	**Cement G**	Gauging Station		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
CDPHE			CC	**Cement G**	Cement Gaging Stn		**CC48**	C48
			CC	**Cement G**	Cement		**CC48**	C48
			CC	**Cement G**	Cement		**CC48**	C48
			CC	**Cement G**	Cement		**CC48**	C48
USGS			CC		Cement Creek at gage		**CC48**	
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
			CC	**Cement G**	Cement @ Gage		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
			CC	**Cement G**	Cement @ Gage		**CC48**	C48
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC		Cement Cr. Gage		**CC48**	
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
			CC	**Cement G**	Cement @ Gage		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48
CDOW			CC	**Cement G**	Cement Cr		**CC48**	C48

CDOW	CC	**Cement G** Cement Cr		**CC48**	C48
CDOW	CC	**Cement G** Cement Cr		**CC48**	C48
CDOW	CC	**Cement G** Cement Cr		**CC48**	C48
CDOW	CC	Cement Cr. Gage		**CC48**	
	CC	**Cement G** Cement @ Gage		**CC48**	C48
CDOW	CC	Cement Cr. Gage		**CC48**	
CDOW	CC	Cement Cr. Gage		**CC48**	
CDOW	CC	Cement Cr. Gage		**CC48**	
	CC	**Cement G** Cement @ Gage		**CC48**	C48
CDOW	CC	Cement Cr. Gage		**CC48**	
CDPHE	CC	**Cement G** CEMENT @ SILVERTON	**CC48**	C48
CDOW	CC	Cement Cr. Gage		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Gaging Station		**CC48**	C48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement Gauge**		**CC48**	C48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Gaging Station		**CC48**	C48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Gaging Station		**CC48**	C48
	CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
CDOW	CC	**Cement G** Cement Cr		**CC48**	
EPA	CC	**Cement G** Cement Creek Gage	**CC48**	CC48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
	CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
USGS	CC	**Cement Gauge** Cement Cre	**CC48**	CC48
	CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW	CC	**Cement G** Cement Cr		**CC48**	
	CC	**Cement G** Gaging Station		**CC48**	C48

USGS		CC	**Cement Gauge**	Cement Cre**CC48**	CC48
CDOW		CC	**Cement G** Cement Cr	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cre**CC48**	CC48
		CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW		CC	**Cement G** Cement Cr	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
		CC	**Cement Gauge**	**CC48**	CC48
CDOW		CC	**Cement G** Cement Cr	**CC48**	
CDOW		CC	**Cement G** Cement Cr	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** Cement Cr	**CC48**	
		CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW		CC	**Cement G** Gaging Station	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** Gaging Station	**CC48**	
		CC	**Cement Gauge**	**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** Gaging Station	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** Gaging Station	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** Gaging Station	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
		CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
CDOW		CC	**Cement G** River St Br	**CC48**	
DOW	323.065	CC	**Cement G** River St Br	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** River St Br	**CC48**	
DOW	323.066	CC	**Cement G** River St Br	**CC48**	
CDOW		CC	**Cement G** River St Br	**CC48**	
DOW	323.067	CC	**Cement G** River St Br	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** River St Br	**CC48**	
DOW	323.068	CC	**Cement G** River St Br	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
		CC	**Cement Gauge**	**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW		CC	**Cement G** River St Br	**CC48**	
DOW	323.069	CC	**Cement G** River St Br	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
CDOW	323.071	CC	**Cement Gauge**	At Mouth **CC48**	
		CC	**Cement G** Cement Gaging Stn	**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr**CC48**	CC48

USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	
		CC	**Cement Gauge**		**CC48**	CC48
CDOW	323.072	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.073	CC	**Cement Gauge**	At Mouthr	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement G**	Cement Gaging Stn	**CC48**	CC48
CDOW	323.074	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement Gauge**		**CC48**	CC48
CDOW	323.075	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement G**	Cement Gaging Stn	**CC48**	CC48
CDOW	323.076	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement Gauge**		**CC48**	CC48
CDOW	323.077	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Gaging Stn	**CC48**	CC48
CDOW	323.078	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
CDOW	323.079	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab		CC	**Cement Gauge**		**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
CDOW	323.080	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.081	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
CDOW	323.082	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
CDOW	323.083	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.084	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
Acculab		CC	**Cement G**	Cement Gaging Stn	**CC48**	CC48
CDOW	323.085	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
CDOW	323.086	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.087	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
CDOW	323.088	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.089	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab		CC	**Cement G**	Gaging Stn	**CC48**	
CDOW	323.090	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.091	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.092	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
CDOW	323.093	CC	**Cement Gauge**	At Mouth	**CC48**	
EPA		CC	**Cement G**	Cement Creek Gage	**CC48**	
Acculab		CC	**Cement G**	Gaging Stn	**CC48**	
CDOW	323.094	CC	**Cement Gauge**	At Mouth	**CC48**	

Agency	ID		Station	Location	Code	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement G**	Cement Creek	**CC48**	C48
CDOW	323.095	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab		CC	**Cement Gauge**		**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
CDOW	323.096	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab		CC	**Cement Gauge**		**CC48**	CC48
Acculab		CC	**Cement G**	Gaging Stn	**CC48**	
CDOW	323.097	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
CDOW	323.098	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab		CC	**Cement G**	Gaging Stn	**CC48**	
CDOW	323.099	CC	**Cement Gauge**	At Mouth	**CC48**	
CDOW	323.100	CC	**Cement Gauge**	At Mouth	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
CDOW	323.101	CC	**Cement Gauge**	At Mouth	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
Acculab		CC	**Cement G**	Gaging Stn	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
		CC	**Cement G**	Cement Creek	**CC48**	C48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
EPA		CC	**Cement G**	Cement Creek Gage	**CC48**	
		CC	**Cement G**	Cement Creek	**CC48**	C48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
Acculab	99-A16496 99-A16495?	CC	**Cement Gauge**		**CC48**	
Acculab		CC	**Cement Gauge**	CC48	**CC48**	
USGS		CC	**Cement Gauge**	Cement Cr	**CC48**	CC48
Acculab	99-A19165	CC	**Cement Gauge**		**CC48**	
CDOW	323.102	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.103	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab	99-A24559	CC	**Cement Gauge**		**CC48**	
CDOW	323.104	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.105	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab	00-A234	CC	**Cement Gauge**		**CC48**	
CDOW	323.106	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.107	CC	**Cement Gauge**	At Mouth	**CC48**	
Acculab	00-A3555	CC	**Cement Gauge**		**CC48**	
CDOW	323.108	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	00-A7607	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	00-A12140	CC	**Cement Gauge**		**CC48**	

IML		CC	**Cement Gauge**		**CC48**	
Acculab	00-A16902	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	00-A20884	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	01-A252	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	01-A4440	43910	CC	**Cement Gauge**	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	01-A8049	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	01-A13362	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	G01090118-03	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	G01110179-03	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	G02010053-02	CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Acculab	G02030171-03	G0203017	CC	**Cement Gauge**	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
Sangre de	22143-22145	CC	**Cement Gauge**		**CC48**	
CDOW	323.109	CC	**Cement Gauge**	At Mouth	**CC48**	
Energy Lal	C02070236-002	CC	**Cement Gauge**		**CC48**	
CDOW	323.110	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.111	CC	**Cement Gauge**	At Mouth	**CC48**	
Energy Lal	C02090454-003	CC	**Cement Gauge**		**CC48**	
CDOW	323.112	CC	**Cement Gauge**	At Mouth	**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.113	CC	**Cement Gauge**	At Mouth	**CC48**	
Energy Lal	C02110426	CC	**Cement Gauge**		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
Energy Lal	C0301072;C03010722	CC	**Cement Gauge**	Cement ga	**CC48**	CC48
CDOW		CC	Cement Cr. Gage		**CC48**	
IML		CC	**Cement Gauge**		**CC48**	
CDOW	323.129	CC	**Cement Gauge**		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
Energy Lal	C0305032;C03050327	CC	**Cement Gauge**	Cement ga	**CC48**	CC48
CDOW		CC	Cement Cr. Gage		**CC48**	
CDOW		CC	Cement Cr. Gage		**CC48**	
Energy Lal	C0307023;C03070233	CC	**Cement Gauge**	Cement ga	**CC48**	CC48

CDOW	323.122	CC	**Cement Gauge**	**CC48**
CDOW	323.123	CC	**Cement Gauge**	**CC48**
Energy Laboratories		CC	**Cement Gauge**	**CC48**
CDOW	323.124	CC	**Cement Gauge**	**CC48**
CDOW	323.125	CC	**Cement Gauge**	**CC48**
Energy Lal C03110261-004		CC	Cement Gauge	CC48
CDOW	323.126	CC	**Cement Gauge**	**CC48**
CDOW	323.127	CC	**Cement Gauge**	**CC48**
CDOW	323.128	CC	**Cement Gauge**	**CC48**
Energy Lal C04030243-002		CC	**Cement Gauge**	**CC48**
CDOW		CC	Cement Cr. Gage	**CC48**
CDOW	323.130	CC	**Cement Gauge**	**CC48**
Energy Lal C04050280-004		CC	**Cement Gauge**	**CC48**
CDOW	323.131	CC	**Cement Gauge**	**CC48**
CDOW	323.132	CC	**Cement Gauge**	**CC48**
CDOW	323.133	CC	**Cement Gauge**	**CC48**
Energy Lal C04070459-004		CC	**Cement Gauge**	**CC48**
CDOW	323.134	CC	**Cement Gauge**	**CC48**
CDOW	323.135	CC	**Cement Gauge**	**CC48**
Energy Lal C04090141-004		CC	**Cement Gauge**	**CC48**
CDOW	323.136	CC	**Cement Gauge**	**CC48**
CDOW	323.137	CC	**Cement Gauge**	323 **CC48**
Energy Lal C04110529-004		CC	**Cement Gauge**	**CC48**
CDOW	323.138	CC	**Cement Gauge**	323 **CC48**
CDOW	323.139	CC	**Cement Gauge**	323 **CC48**
CDOW	323.14	CC	**Cement Gauge**	**CC48**
CDOW	323.141	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			**Cement Gauge**	**CC48**
CDOW	323.142	CC	**Cement Gauge**	**CC48**
CDOW	323.143	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			**Cement Gauge**	**CC48**
CDOW	323.144	CC	**Cement Gauge**	**CC48**
CDOW		CC	Cement Cr. Gage	**CC48**
Energy Laboratories, Inc			**Cement Gauge**	**CC48**
Energy Laboratories, Inc		CC	**Cement Gauge**	**CC48**
CDOW		CC	Cement Cr. Gage	**CC48**
CDOW	323.148	CC	**Cement Gauge**	**CC48**
~~Energy Laboratories, Inc~~			~~Cement Gauge~~	~~CC48~~
Energy Laboratories, Inc		CC	**Cement Gauge**	**CC48**
CDOW	323.149	CC	**Cement Gauge**	**CC48**
CDOW	323.15	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			**Cement Gauge**	**CC48**
CDOW	323.152	CC	**Cement Gauge**	**CC48**
CDOW	323.151	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc		CC	**Cement Gauge**	**CC48**
CDOW	**323.153**	**CC**	**Cement Gauge**	**CC48**

Entity	ID	Code	Description	Code	ID
CDOW	323.154	CC	Cement Gauge	CC48	
CDOW	323.155	CC	Cement Gauge	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW	323.156	CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW	323.157	CC	Cement Gauge	CC48	
CDOW	323.158	CC	Cement Gauge	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Gaging Stn	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW		CC	Cement Gauge	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	CC48	
	323.167			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.168			CC48	323
	323.169			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.17			CC48	323
	323.171			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.173			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.174			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.176			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.178			CC48	323
	323.179			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.18			CC48	323
	323.181			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.182			CC48	323
	323.183			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	

	323.184			CC48	323
	323.185			CC48	323
Energy Laboratories, Inc		CC	**Cement Gauge**	**CC48**	
	323.186			CC48	323
	323.187			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
~~CDOW~~		~~CC~~	~~Cement Cr. Gage~~	~~CC48~~	
	323.189			CC48	323
		CC	Cement Gauge	CC48	
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.19			CC48	323
	323.191			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.192			CC48	323
U.S. EPA, 8905016-04	2009_MAY	CC	Cement Creek upstream of Silverton	CC48	and upstream
	323.193			CC48	323
U.S. EPA, 8906009-01	2009_JUN	CC	Cement Creek upstream of Silverton	CC48	and upstream
~~U.S. EPA, 8906009-01~~	~~2009_JUN~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~0906192-4~~	~~2009_JUN~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~0906192-4_DUP_DUP~~	~~2009_JUN~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
CDOW		CC	Cement Cr. Gage	**CC48**	
~~U.S. EPA, 8907022-03~~	~~2009_JUL~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
U.S. EPA, 8907022-03	2009_JUL	CC	Cement Creek upstream of Silverton	CC48	and upstream
~~U.S. EPA, 8907022-03RE1~~	~~2009_JUL~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~0907188-18~~	~~2009_JUL~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
	323.195			CC48	323
U.S. EPA, 8908019-04	2009_AUG	CC	Cement Creek upstream of Silverton	CC48	and upstream
~~U.S. EPA, 8908019-04~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~U.S. EPA, 8908019-04RE1~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~U.S. EPA, 8908019-05~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream dup~~
~~U.S. EPA, 8908019-05~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream dup~~
~~U.S. EPA, 8908019-05RE1~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream dup~~
~~0908208-4~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~0908208-5~~	~~2009_AUG~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream dup~~
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
	323.196			CC48	323
U.S. EPA, 8909027-04	2009_SEP	CC	Cement Creek upstream of Silverton	CC48	and upstream
~~U.S. EPA, 8909027-04~~	~~2009_SEP~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~U.S. EPA, 8909027-04RE1~~	~~2009_SEP~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
~~0909262-4~~	~~2009_SEP~~	~~CC~~	~~Cement Creek upstream of Silverton~~	~~CC48~~	~~and upstream~~
	323.197			CC48	323
Energy Laboratories, Inc		CC	Cement Gauge	CC48	
		~~CC~~	~~Cement Gauge~~	~~CC48~~	
	~~323.198~~			~~CC48~~	~~323~~

U.S. EPA, 8911012-05	2009_NOV	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 8911012-05	2009_NOV	CC	Cement Creek upstream of Silver... and upstream	CC48	
ALS Envir 0911213-5	2009_NOV	CC	Cement Creek upstream of Silver... and upstream	CC48	
	323.199			CC48	323
U.S. EPA, 1002004-10	2010_FEB	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1002004-10	2010_FEB	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1002004-10RE1	2010_FEB	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1002004-24	2010_FEB	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
U.S. EPA, 1002004-24	2010_FEB	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
U.S. EPA, 1002004-24RE1	2010_FEB	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
1002201-13	2010_FEB	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
1002201-6	2010_FEB	CC	Cement Creek upstream of Silver... and upstream	CC48	
	323.202			CC48	323
U.S. EPA, 1003013-06	2010_MAF	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1003013-06	2010_MAF	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1003013-06RE1	2010_MAF	CC	Cement Creek upstream of Silver... and upstream	CC48	
1003219-6	2010_MAF	CC	Cement Creek upstream of Silver... and upstream	CC48	
	323.203			CC48	323
U.S. EPA, 1004007-10	2010_APR	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1004007-10	2010_APR	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1004007-25	2010_APR	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
U.S. EPA, 1004007-25	2010_APR	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
	323.204			CC48	323
		CC	Cement Gauge	CC48	
	323.205			CC48	323
U.S. EPA, 1006002-10	2010_JUN	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1006002-24	2010_JUN	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
ALS Envir 1006053-10	2010_JUN	CC	Cement Creek upstream of Silver... and upstream	CC48	
ALS Envir 1006053-24	2010_JUN	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
	323.206			CC48	323
		CC	Cement Gauge	CC48	
U.S. EPA, 1007017-12	2010_JUL	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1007017-12	2010_JUL	CC	Cement Creek upstream of Silver... and upstream	CC48	
ALS Envir 1007194-12	2010_JUL	CC	Cement Creek upstream of Silver... and upstream	CC48	
	323.207			CC48	323
	323.208			CC48	323
		CC	Cement Gauge	CC48	
U.S. EPA, 1009024-12	2010_SEP	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1009024-12	2010_SEP	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1009024-12	2010_SEP	CC	Cement Creek upstream of Silver... and upstream	CC48	
U.S. EPA, 1009024-31	2010_SEP	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
U.S. EPA, 1009024-31	2010_SEP	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
U.S. EPA, 1009024-31	2010_SEP	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	
1009265-12	2010_SEP	CC	Cement Creek upstream of Silver... and upstream	CC48	
1009265-30	2010_SEP	CC	Cement Creek upstream of Silver... and CC48-dup	CC48	

	323.209			CC48	323

U.S. EPA, 1011008-12	2010_NOV	CC	Cement Creek upstream of Silverton and upstream	CC48	

	323.21			CC48	323
		CC	Cement Gauge	CC48	
	323.211			CC48	323
DOW	L01051000	323.212	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			CC	Cement Gauge	CC48
DOW	L02111300	323.213	CC	**Cement Gauge**	**CC48**
DOW	L03090900	323.214	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			CC	Cement Gauge	CC48
EPA				**Cement Gauge**	**CC48**
DOW	L04061210	323.215	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			CC	Cement Gauge	CC48
DOW	L05081220	323.216	CC	**Cement Gauge**	**CC48**
DOW	L06031310	323.217	CC	**Cement Gauge**	**CC48**
EPA				**Cement Gauge**	**CC48**
DOW	L07051300	323.218	CC	**Cement Gauge**	**CC48**
EPA				**Cement Gauge**	**CC48**
DOW	L08011040	323.219	CC	**Cement Gauge**	**CC48**
EPA				**Cement Gauge**	**CC48**
DOW	L09071200	323.22	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			CC	Cement Gauge	CC48
EPA				**Cement Gauge**	**CC48**
DOW	L10071015	323.221	CC	**Cement Gauge**	**CC48**
EPA				**Cement Gauge**	**CC48**
DOW	L11021000	323.222	CC	**Cement Gauge**	**CC48**
Energy Laboratories, Inc			CC	Cement Gauge	CC48
DOW	L12071320	323.223	CC	**Cement Gauge**	**CC48**
DPW		323.224	CC		CC48
DPW		323.225	CC		CC48
DPW		323.226	CC		CC48
DPW		323.227	CC		CC48
DPW		323.228	CC		CC48
EPA	A830-0013		CC	CC gaging station	CC48
DPW		323.229	CC		CC48
DPW		323.23	CC		CC48
DPW		323.231	CC		CC48
EPA	A830-0170		CC	CC gaging station	CC48

DPW	323.232	CC		CC48
EPA	A830-0171	CC	CC gaging station	CC48
DPW	323.233	CC		CC48
DPW	323.234	CC		CC48
DPW	323.235	CC		CC48
DPW	323.236	CC		CC48
DPW	323.237	CC		CC48
DPW	323.238	CC		CC48
DPW	323.239	CC		CC48
EPA	A830-0476	CC	CC gaging station	CC48
DPW	323.24	CC		CC48
DPW	323.241	CC		CC48
DPW	323.242	CC		CC48
DPW	323.243	CC		CC48
DPW	323.244	CC		CC48
DPW	323.245	CC		CC48
DPW	323.246	CC		CC48
DPW	323.247	CC		CC48
DPW	323.248	CC		CC48
DPW	323.249	CC		CC48
DPW	323.25	CC		CC48
EPA	A830-0782	CC	CC gaging station	CC48
DPW	323.252	CC		CC48
DPW	323.253	CC		CC48
DPW	323.254	CC		CC48
DPW	323.255	CC		CC48
EPA	085M-0057	CC	CC gaging station	CC48
DPW	323.256	CC		CC48
DPW	323.257	CC		CC48
DPW	323.258	CC		CC48

STATION Other Allia Herron, SGC, USGS, CRW, ARSG	OTHER AL USGS AML	MISNOMN SAMPLE NUMBER (often previous site designations)	DATE	TIME_24HR	AGENCY	COMMENT
CC-48			2/11/1991		SGC	
CC-48			3/28/1991		SGC	
CC-48			4/23/1991		SGC	
			09/05/91		WQCD	
			9/6/1991		WQCD	
			9/7/1991		WQCD	
			9/9/1991		WQCD	
			9/10/1991		WQCD	
			6/23/1992		WQCD	
			6/24/1992		WQCD	
			6/25/1992		WQCD	
	323		07/23/92	15:30	CRW	
	323		9/20/1992	11:53	CRW	
	377		10/14/1992		WQCD	
	377		10/15/1992		WQCD	
			7/20/1993		WQCD	
			7/21/1993		WQCD	
CC-48			11/2/1993	11:30	SGC	
CC-48			3/16/1994	10:30	SGC	
CC-48			6/30/1994	15:00	SGC	
			9/29/1994	17:00	USGS	
	323		10/12/1994	15:50	CRW	
		fill in ALR desi	11/9/94		BOR	
	323		11/9/1994	15:46	CRW	
323		323199412131500	12/13/1994	15:00:00	CRW	
323		323199501181541	1/18/1995	15:41:00	CRW	
323		323199502151550	2/15/1995	15:50:00	CRW	
323		323199503011550	3/1/1995	15:50:00	CRW	
323		323199503151550	3/15/1995	15:50:00	CRW	
323		323199504061550	4/6/1995	15:50:00	CRW	
		fill in ALR desi	4/12/1995		BOR	
323		323199504121545	4/12/1995	15:45:00	CRW	
323		323199504191603	4/19/1995	16:03:00	CRW	
323		323199505031545	5/3/1995	15:45:00	CRW	
323		323199505101615	5/10/1995	16:15:00	CRW	
	323		5/22/1995	0	CRW	
	323		5/31/1995	9:03	CRW	
	323		6/7/1995	8:16	CRW	
	323		6/14/1995	8:26	CRW	
		fill in ALR desi	6/21/1995		BOR	
	323		6/21/1995	8:18	CRW	
	323		6/28/1995	9:06	CRW	
	323		7/5/1995	8:40	CRW	

	323		7/12/1995	0	CRW
	323		7/19/1995	8:45	CRW
	323		8/2/1995	8:15	CRW
323		323199508160905	8/16/1995	9:05:00	CRW
		fill in ALR desi	9/6/1995		BOR
323		323199509131545	9/13/1995	15:45:00	CRW
323		323199510111555	10/11/1995	15:55:00	CRW
323		323199511151610	11/15/1995	16:10:00	CRW
		fill in ALR desi	11/29/1995		BOR
323		323199512131605	12/13/1995	16:05:00	CRW
			1/16/1996	16:00	WQCD
323		323199601171545	1/17/1996	15:45:00	CRW
323		fill in CRW san	2/14/1996		CRW
323		fill in CRW san	3/13/1996		CRW
323		fill in CRW san	3/20/1996		CRW
323		fill in CRW san	4/3/1996		CRW
	323	fill in ALR desi	4/9/1996	13:30	BOR
323		fill in CRW san	4/10/1996		CRW
323		fill in CRW san	4/17/1996		CRW
323		fill in CRW san	5/1/1996		CRW
323		fill in CRW san	5/8/1996		CRW
323		fill in CRW san	5/15/1996		CRW
	323	fill in ALR desi	5/21/1996	14:10	BOR
323		fill in CRW san	5/29/1996		CRW
323		fill in CRW san	6/5/1996		CRW
323		fill in CRW san	6/12/1996		CRW
	323		06/18/96	0	SGC
323		fill in CRW san	6/19/1996		CRW
323		fill in CRW san	6/26/1996		CRW
323		fill in CRW san	7/3/1996		CRW
323		fill in CRW san	7/10/1996		CRW
323		fill in CRW san	7/12/1996		CRW
	323	fill in ALR desi	7/16/1996	14:15	BOR
323		fill in CRW san	8/7/1996		CRW
	323	fill in ALR desi	8/14/1996	12:00	BOR
	323		08/14/96	0	SGC
323		fill in CRW san	8/21/1996		CRW
323		fill in CRW san	9/18/1996		CRW
CC-48		CC48L	10/1/1996		DMG
323		fill in CRW san	10/16/1996		CRW
	323		10/18/96	0	SGC
	323		11/07/96	0	SGC
323		fill in CRW san	11/13/1996		CRW
	7		11/19/96	14:30	USGS
	323		12/13/96	0	SGC
323		fill in CRW san	12/18/1996		CRW
	323	fill in ALR desi	1/7/1997	12:00	BOR

					Date	Time	Agency
			8		01/09/97	9:30	USGS
323				fill in CRW san	1/15/1997		CRW
			9		01/30/97	11:45	USGS
		323			02/05/97	0	SGC
323				fill in CRW san	2/12/1997		CRW
			72		02/25/97	10:00	USGS
		323		fill in ALR desi	3/5/1997	11:00	BOR
323				fill in CRW san	3/12/1997		CRW
323				fill in CRW san	3/19/1997		CRW
			71		03/25/97	14:00	USGS
323				fill in CRW san	4/2/1997		CRW
		323			04/11/97	0	SGC
323				fill in CRW san	4/16/1997		CRW
			73		04/28/97	16:30	USGS
323				fill in CRW san	4/30/1997		CRW
		323		fill in ALR desi	5/7/1997		BOR
			120		05/14/97	11:00	USGS
323				fill in CRW san	5/21/1997		CRW
			121		05/21/97	13:00	USGS
323				fill in CRW san	5/28/1997		CRW
			122		05/29/97	12:00	USGS
323				fill in CRW san	6/4/1997		CRW
			123		06/05/97	9:30	USGS
		323			06/10/97	0	SGC
	323			323.065	6/11/1997	9:20	CRW
	323			323.065	6/11/1997	9:20	CRW
			130		06/11/97	13:45	USGS
			129		06/17/97	11:30	USGS
	323			323.066	6/18/1997	9:10	CRW
	323			323.066	6/18/1997	9:10	CRW
	323			323.067	6/25/1997	9:00	CRW
	323			323.067	6/25/1997	9:00	CRW
			128		06/25/97	9:30	USGS
	323			323.068	7/2/1997	9:10	CRW
	323			323.068	7/2/1997	9:10	CRW
			127		07/02/97	7:45	USGS
		323		fill in ALR desi	7/9/1997	12:00	BOR
			126		07/15/97	12:45	USGS
	323			323.069	7/16/1997	8:55	CRW
	323			323.069	7/16/1997	8:55	CRW
			209		07/29/97	14:00	USGS
	323				8/13/1997	8:40	CRW
		323			08/13/97	0	SGC
			208		08/13/97	8:45	USGS
			217		08/26/97	10:45	USGS
			218		08/26/97	18:00	USGS
			219		08/26/97	18:20	USGS

	308		08/29/97	15:50	USGS
	323	fill in ALR desi(	9/11/1997	12:00	BOR
323			9/11/97	-9	DOW
323			9/17/1997	15:55	CRW
	207		09/25/97	9:30	USGS
	323		10/08/97	0	SGC
323			10/15/1997	15:50	CRW
	272		10/22/97	15:10	USGS
	323	fill in ALR desi(	11/12/1997	13:00	BOR
323			11/12/1997	14:20	CRW
	273		11/26/97	9:45	USGS
	323		12/03/97	0	SGC
323			12/17/1997	16:50	CRW
	325		12/23/97	14:30	USGS
323, 09358550		fill in ALR desi(	1/7/1998		BOR
323			1/14/1998	16:10	CRW
	323		02/04/98	0	SGC
323			2/11/1998	16:00	CRW
	324		02/12/98	17:00	USGS
323			3/4/1998	16:27	CRW
		fill in ALR desi(	3/5/1998	11:30	BOR
	331		03/16/98	15:15	USGS
323			3/18/1998	15:45	CRW
323			4/1/1998	16:05	CRW
			04/08/98	11:30	SGC
323			4/15/1998	16:30	CRW
	341		04/23/98	10:45	USGS
323			4/29/1998	15:50	CRW
323			5/5/1998	16:00	CRW
	352		05/06/98	14:30	USGS
		fill in ALR desi(	5/7/1998		BOR
323			5/13/1998	16:30	CRW
323		323199805271630	5/27/1998	16:30:00	CRW
323			6/3/1998	8:45	CRW
323			6/10/1998	8:40	CRW
			06/10/98	11:00	SGC
323			6/17/1998	9:00	CRW
323			6/24/1998	8:30	CRW
			7/1/1998	12:00	BOR
323			7/8/1998	9:30	CRW
323			7/15/1998	8:50	CRW
323			7/22/1998	9:17	CRW
			08/05/98	10:30	SGC
323			8/26/1998	9:00	CRW
			9/2/1998	17:00	DMG
			9/9/1998	11:30	BOR
323			9/16/1998	16:00	CRW

	604		09/30/98	13:40	USGS	
			10/07/98	11:40	SGC	
323			10/14/1998	15:50	CRW	
		fill in ALR desi	11/3/1998	11:00	BOR	
	644		11/03/98	16:35	USGS	
323			11/18/1998	16:10	CRW	
		fill in ALR desi	1/6/1999	10:50	BOR	
			1/6/1999	10:50	BOR	
323			1/13/1999	16:10	CRW	
			02/04/99	9:20	SGC	
	656		02/09/99	14:20	USGS	
323			2/24/1999	16:50	CRW	
			3/3/1999	11:00	BOR	
323			3/17/1999	16:25	CRW	
323			4/1/1999	16:30	CRW	
			04/07/99	10:00	SGC	
323			4/21/1999	16:00	CRW	
	682		04/29/99	15:00	USGS	
			5/6/1999	11:00	BOR	
	706		05/26/99	14:30	USGS	
			06/09/99	9:15	SGC	
	715		06/09/99	12:45	USGS	
C-48			6/23/1999	10:15	DMG	
			07/07/99	8:45	SGC	
	754		07/15/99	12:00	USGS	
	772		07/29/99	15:10	USGS	
		99-A16495	8/4/1999	12:00	BOR	
		99-A16495	8/4/99	12:00	BOR	
	784		08/17/99	15:30	USGS	plus 23 shi
		99-A19165	9/1/1999	12:30	BOR	
323			9/13/1999	16:00	CRW	
			10/06/99	8:30	SGC	
323			10/14/1999	15:50	CRW	
		99-A24559	11/3/99	13:00	BOR	
323			11/17/1999	15:50	CRW	
			12/1/99	9:30	SGC	
323			12/15/1999	16:07	CRW	
			1/5/00	11:00	BOR	
323			1/12/2000	16:00	CRW	
			2/2/00	9:30	SGC	
323			2/28/2000	15:50	CRW	
			3/1/00	12:00	BOR	
323			3/15/2000	9:50	CRW	
			4/5/00	9:00	SGC	
			5/3/00	11:30	BOR	
			6/7/00	8:45	SGC	
			7/5/00	11:30	BOR	

			Date	Time	Code
			8/2/00	8:50	SGC
			9/6/00	11:30	BOR
			10/4/00	8:50	SGC
			11/1/00	12:00	BOR
			12/6/00	11:30	SGC
			1/3/01	11:00	BOR
			2/6/01	10:45	SGC
			3/14/01	13:00	BOR
			4/4/01	9:00	SGC
			5/2/01	12:00	BOR
			6/6/01	10:00	SGC
			7/6/01	12:30	BOR
			8/1/01	10:10	SGC
			9/5/01	11:30	BOR
			10/3/01	9:00	SGC
			11/7/01	11:00	BOR
			12/5/01	9:50	SGC
			1/2/02	11:00	BOR
			2/6/02	11:15	SGC
			3/6/02	11:30	BOR
			4/3/02	9:20	SGC
			5/1/02	10:30	SGC
			6/5/02		BOR
323			6/27/2002	13:00	CRW
			7/3/02	12:00	BOR
323			7/17/2002	13:35	CRW
			8/7/02	9:45	SGC
323			8/14/2002	12:20	CRW
			9/4/02	12:00	BOR
323			9/18/2002	17:25	CRW
			10/2/02	9:30	SGC
323			10/25/2002	9:20	CRW
			11/6/02	11:00	BOR
323		323200211121340	11/12/2002	13:40:00	CRW
			12/4/02	11:15	SGC
323		323200212081315	12/8/2002	13:15:00	CRW
323		323200301081245	1/8/2003	12:45:00	CRW
			1/9/03	11:00	BOR
323		323200302011550	2/1/2003	15:50:00	CRW
			2/5/03	10:00	SGC
	323		3/3/03	10:30	CRW
323		323200303091702	3/9/2003	17:02:00	CRW
323		323200304241153	4/24/2003	11:53:00	CRW
			5/7/2003	14:30	BOR
323		323200305071430	5/7/2003	14:30:00	CRW
323		323200306021435	6/2/2003	14:35:00	CRW
			7/2/2003		BOR

	323		7/2/2003	13:30	CRW
	323		8/14/2003	11:28	CRW
			9/11/2003	14:00	BOR	dissolved r
	323		9/11/2003	14:00	CRW
	323		10/4/2003	16:55	CRW
			11/6/03	13:00	BOR	lab report r
	323		12/29/2003	15:30	CRW
	323		1/16/2004	16:15	CRW
	323		2/13/2004	16:15	CRW
			3/3/04	10:30	BOR
323		323200403031030	3/3/2004	10:30:00	CRW
	323		4/16/2004	13:45	CRW
			5/5/04	13:00	BOR
	323		5/5/2004	13:00	CRW
	323		5/28/2004	14:15	CRW
	323		6/17/2004	13:45	CRW
			7/7/04	12:00	BOR
	323		7/7/2004	12:00	CRW
	323		8/19/2004	13:00	CRW
			9/1/04	11:30	BOR
	323		9/15/2004	13:45	CRW
	323	323.137	10/14/04	12:55	CRW
			11/10/04	12:00	BOR
	323	323.138	11/10/2004	12:00	CRW	BOR Colle
	323	323.139	12/8/2004	11:12	CRW
		323.14	1/20/2005	12:50	CRW
		323.141	2/15/05	10:24	CRW
		CC-48	3/2/2005	11:00	BOR
		323.142	3/13/2005	12:35	CRW
		323.143	4/9/05	11:45	CRW
		CC-48	5/4/2005	12:00	BOR
		323.144	5/4/05	12:00	CRW
323		323200506090825	6/9/2005	8:25:00	CRW
		CC-48	7/6/2005	13:00	BOR
			07/06/2005		BOR
323		323200507061300	7/6/2005	13:00:00	CRW	Conductivity 330 um
			8/10/2005	14:55:00	CRW
			9/14/05		CRW
		CC-48	9/15/2005	11:00	BOR
			09/15/2005	11:00	BOR
			10/13/05		CRW
			11/2/05		CRW
		CC-48	11/2/2005	12:00	BOR
			12/20/05		CRW
			1/6/06		CRW
			01/06/2006	11:00	BOR
			2/8/06		CRW

		~~2/8/06~~		~~CRW~~	
		~~3/7/06~~		~~CRW~~	not in DOV
		03/15/2006	10:00	BOR	
323	323200603151000	3/15/2006	10:00:00	CRW	Conductivity 972 um
		4/5/06		CRW	
323	323200604051115	4/5/2006	11:15:00	CRW	Interference on alka
		05/10/2006	13:00	BOR	
323	323200605101300	5/10/2006	13:00:00	CRW	Conductivity 409 um
		6/6/06		CRW	
		7/12/06		CRW	
		07/12/2006	12:30	BOR	
	323.158	7/12/2006	12:30	CDOW	
323	323200608021020	8/2/2006	10:20:00	CRW	
		09/06/2006	12:30	BOR	
~~323~~	~~323200609061230~~	~~9/6/2006~~	~~12:30:00~~	~~CRW~~	~~Conductivity 957 um~~
323	323200610111300	10/11/2006	13:00:00	CRW	HI FLOW!
		11/01/2006	12:00	BOR	
323	323200611011200	11/1/2006	12:00:00	CRW	Mostly Clear and Sun
323	323200612050925	12/5/2006	9:25:00	CRW	
323	323200701110830	1/11/2007	8:30:00	CRW	
323	323200702060940	2/6/2007	9:40:00	CRW	
		03/07/2007	11:00	BOR	
323	323200703071100	3/7/2007	11:00:00	CRW	Clear Sunny and lots
	323200704021235	4/2/2007	12:35:00	DOW	
		05/11/2007	13:00	BOR	
	323200705111300	5/11/2007	13:00:00	DOW	
	323200706051015	6/5/2007	10:15:00	DOW	
		07/11/2007	13:00	BOR	
	323200707111300	7/11/2007	13:00:00	DOW	
	323200708061250	8/6/2007	12:50:00	DOW	
		09/05/2007	12:00	BOR	
	323200710251450	10/25/2007	14:50:00	DOW	
		11/07/2007	14:00	BOR	
	323200711071400	11/7/2007	14:00:00	DOW	
		1/2/2008		BOR	
	323200801021030	1/2/2008	10:30:00	DOW	
		3/12/2008	10:00	BOR	
	323200803121000	3/12/2008	10:00:00	DOW	
	323200804101330	4/10/2008	13:30:00	DOW	
		5/7/2008	13:00	BOR	
	323200805071300	5/7/2008	13:00:00	DOW	
	323200806031410	6/3/2008	14:10:00	DOW	
		7/9/2008	12:30	BOR	
	323200807091015	7/9/2008	10:15:00	DOW	
	323200808051115	8/5/2008	11:15:00	DOW	
		~~9/3/2008~~	~~12:00~~	~~BOR~~	

	323200809031200	9/3/2008	12:00:00	DOW	
	323200810061445	10/6/2008	14:45:00	DOW	
		11/7/2008	11:00	BOR	
	323200811071200	11/7/2008	12:00:00	DOW	
	323200812031245	12/3/2008	12:45:00	DOW	
		1/8/2009		BOR	
~~323~~	~~323200901081030~~	~~1/8/2009~~	~~10:30:00~~	~~CRW~~	~~BOR Collected, filter~~
	323200902061405	2/6/2009	14:05:00	DOW	
		3/3/2009	9:30	BOR	
		3/4/2009	10:00	BOR	orange to
	323200903041000	3/4/2009	10:00:00	DOW	
	323200904061320	4/6/2009	13:20:00	DOW	
		5/13/2009	12:00	BOR	turbid high
	323200905131200	5/13/2009	12:00:00	DOW	
fluence with the Animas River. From tow~~3006~~46-04		5/19/2009			
	323200906021005	6/2/2009	10:05:00	DOW	
fluence with the Animas River. From tow~~30089~~09-01		6/16/2009			
~~fluence with the Animas River. From tow~~890809-01~~~~		~~6/16/2009~~			
~~fluence with the Animas River. From tow~~890892-4~~~~		~~6/16/2009~~			
~~fluence with the Animas River. From tow~~890892-4_DL~~~~		~~6/16/2009~~			
		7/8/2009	13:00	BOR	
323	323200907081200	7/8/2009	12:00:00	CRW	Conductivity 546 um
~~fluence with the Animas River. From tow~~890922-03~~~~		~~7/14/2009~~			
fluence with the Animas River. From tow~~89092~~22-03		7/14/2009			
~~fluence with the Animas River. From tow~~890922-03RE~~~~		~~7/14/2009~~			
~~fluence with the Animas River. From tow~~890988-18~~~~		~~7/14/2009~~			
	323200908121030	8/12/2009	10:30:00	DOW	
fluence with the Animas River. From tow~~30089~~9-04		8/18/2009			
~~fluence with the Animas River. From tow~~890889-04~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890889-04RE~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890889-05~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890889-05~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890889-05RE~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890908-4~~~~		~~8/18/2009~~			
~~fluence with the Animas River. From tow~~890908-5~~~~		~~8/18/2009~~			
		9/16/2009	12:30	BOR	
	323200909161230	9/16/2009	12:30:00	DOW	
fluence with the Animas River. From tow~~30099~~27-04		9/22/2009			
~~fluence with the Animas River. From tow~~890927-04~~~~		~~9/22/2009~~			
~~fluence with the Animas River. From tow~~890927-04RE~~~~		~~9/22/2009~~			
~~fluence with the Animas River. From tow~~890962-4~~~~		~~9/22/2009~~			
	323200910051235	10/5/2009	12:35:00	DOW	
		11/4/2009	12:00	BOR	
	~~11/4/2009~~	~~12:00~~	~~BOR~~	ws	
	~~–~~	~~11/5/2009~~	11:20:00	DOW	ws

fluence with the Animas River. From tow~~[redacted]2-05~~ ~~11/17/2009~~ ~~ws~~
fluence with the Animas River. From tow[redacted]2-05 11/17/2009
fluence with the Animas River. From tow~~[redacted]3-5~~ ~~11/17/2009~~

323200912011325 ~~12/1/2009~~ 13:25:00 DOW ws
fluence with the Animas River. From tow~~[redacted]04-10~~ ~~2/17/2010~~
fluence with the Animas River. From tow[redacted]04-10 2/17/2010
fluence with the Animas River. From tow~~[redacted]04-10RE~~ ~~2/17/2010~~
fluence with the Animas River. From tow~~[redacted]04-24~~ ~~2/17/2010~~
fluence with the Animas River. From tow~~[redacted]04-24~~ ~~2/17/2010~~
fluence with the Animas River. From tow~~[redacted]04-24RE~~ ~~2/17/2010~~
fluence with the Animas River. From tow~~[redacted]01-13~~ ~~2/17/2010~~
fluence with the Animas River. From tow~~[redacted]01-6~~ ~~2/17/2010~~

323201003021232 3/2/2010 12:32:00 DOW
fluence with the Animas River. From tow[redacted]3-06 3/17/2010
fluence with the Animas River. From tow~~[redacted]3-06~~ ~~3/17/2010~~
fluence with the Animas River. From tow~~[redacted]3-06RE~~ ~~3/17/2010~~
fluence with the Animas River. From tow~~[redacted]9-6~~ ~~3/17/2010~~

323201004061420 4/6/2010 14:20:00 DOW
fluence with the Animas River. From tow~~[redacted]07-10~~ ~~4/13/2010~~
fluence with the Animas River. From tow[redacted]07-10 4/13/2010
fluence with the Animas River. From tow~~[redacted]07-25~~ ~~4/13/2010~~
fluence with the Animas River. From tow~~[redacted]07-25~~ ~~4/13/2010~~

323201005051000 5/5/2010 10:00:00 DOW
5/5/2010 10:00 BOR
323201006021430 6/2/2010 14:30:00 DOW
fluence with the Animas River. From tow[redacted]02-10 6/2/2010
fluence with the Animas River. From tow~~[redacted]02-24~~ ~~6/2/2010~~
fluence with the Animas River. From tow~~[redacted]3-10~~ ~~6/2/2010~~
fluence with the Animas River. From tow~~[redacted]3-24~~ ~~6/2/2010~~

323201007081200 7/8/2010 12:00:00 DOW
7/8/2010 12:00 BOR
fluence with the Animas River. From tow~~[redacted]7-12~~ ~~7/13/2010~~
fluence with the Animas River. From tow[redacted]7-12 7/13/2010
fluence with the Animas River. From tow~~[redacted]4-12~~ ~~7/13/2010~~

323201008100950 8/10/2010 9:50:00 DOW
323201009091030 9/9/2010 10:30:00 DOW
9/9/2010 10:30 BOR
fluence with the Animas River. From tow~~[redacted]24-12~~ ~~9/14/2010~~
fluence with the Animas River. From tow[redacted]24-12 9/14/2010
fluence with the Animas River. From tow~~[redacted]24-12~~ ~~9/14/2010~~
fluence with the Animas River. From tow~~[redacted]24-31~~ ~~9/14/2010~~
fluence with the Animas River. From tow~~[redacted]24-31~~ ~~9/14/2010~~
fluence with the Animas River. From tow~~[redacted]24-31~~ ~~9/14/2010~~
fluence with the Animas River. From tow~~[redacted]5-12~~ ~~9/14/2010~~
fluence with the Animas River. From tow~~[redacted]5-30~~ ~~9/14/2010~~

~~fluence with the Animas River. From town~~1009265-30_D	~~9/14/2010~~			
	323201010040930	10/4/2010	9:30:00	DOW
~~fluence with the Animas River. From town~~1008-12	~~11/2/2010~~			
fluence with the Animas River. From town 1008-12	11/2/2010			
~~fluence with the Animas River. From town~~1008-12	~~11/2/2010~~			
~~fluence with the Animas River. From town~~1008-32	~~11/2/2010~~			
~~fluence with the Animas River. From town~~1008-32	~~11/2/2010~~			
~~fluence with the Animas River. From town~~1008-32	~~11/2/2010~~			
~~fluence with the Animas River. From town~~1001-12	~~11/2/2010~~			
~~fluence with the Animas River. From town~~1001-32	~~11/2/2010~~			
	323201011031200	11/3/2010	12:00:00	DOW
		11/3/2010	12:00	BOR
	323201012071350	12/7/2010	13:50:00	DOW
323		1/5/2011	10:00:00	DOW
		1/5/2011	10:00	BOR
323		2/11/2011	13:00:00	DOW
323		3/9/2011	9:00:00	DOW
		3/9/2011	9:00	BOR
	1103001-12	03/15/11	13:30	EPA
323		4/6/2011	12:10:00	DOW
		5/4/2011	9:30	BOR
323		5/8/2011	12:20:00	DOW
323		6/3/2011	13:10:00	DOW
	1106010-12	06/14/11	13:45	EPA
323		7/5/2011	13:00:00	DOW
	1107016-12	07/19/11	10:30	EPA
323		8/1/2011	10:40:00	DOW
	1108015-12	08/16/11	10:30	EPA
323		9/7/2011	12:00:00	DOW
		9/7/2011	12:00	BOR
	1109011-12	09/13/11	10:30	EPA
323		10/7/2011	10:15:00	DOW
	1110009-12	10/18/11	10:00	EPA
323		11/2/2011	10:00:00	DOW
		11/2/2011	10:00	BOR
323		12/7/2011	13:20:00	DOW
		1/5/2012	12:45:00	CRW
		2/9/2012	13:10:00	CRW
		3/7/2012	13:10:00	CRW
		4/3/2012	9:22:00	CRW
		5/2/2012	9:45:00	CRW
		5/15/2012	12:45	
		6/2/2012	13:15:00	CRW
		8/6/2012	9:55:00	CRW
		9/4/2012	13:15:00	CRW
		10/2/2012	12:30	

Date	Time		Notes
10/3/2012	12:25:00	CRW	
10/4/2012	10:30		
11/7/2012	10:25:00	CRW	
12/10/2012	10:45:00	CRW	metals taken and filt
1/7/2013	9:45:00	CRW	
2/7/2013	10:00:00	CRW	
3/11/2013	10:15:00	CRW	
4/10/2013	10:15:00	CRW	
5/7/2013	12:55:00	CRW	
5/14/2013	8:30		
6/5/2013	13:05:00	CRW	High flow nutrient sa
7/7/2013	13:45:00	CRW	
8/4/2013	8:30:00	CRW	
9/10/2013	12:55:00	CRW	River up from rain
10/2/2013	13:20:00	CRW	
11/8/2013	10:00:00	CRW	
12/13/2013	10:15:00	CRW	
1/8/2014	9:45:00	CRW	filtered in lab
2/7/2014	10:15:00	CRW	
3/5/2014	10:00:00	CRW	
4/10/2014	9:15:00	CRW	
5/6/2014	8:20		
6/6/2014	13:10:00	CRW	
7/1/2014	12:35:00	CRW	
8/1/2014	12:05:00	CRW	Turbid, raining past 3
9/5/2014	10:30:00	CRW	
9/23/2014	7:55		
10/2/2014	9:15:00	CRW	September rain and s
11/7/2014	9:15:00	CRW	low flow nutrient
12/5/2014	10:30:00	CRW	

TYPE	PURPOSE	LAT_DD	LONG_DD	ELEV_FT	provisional daily mean flow_CFS FLOW_CFS	EST_Q_GP	PH
G	M	37.8200	107.6631	9380	-9.000	4.40	
G	M	37.8200	107.6631	9380	-9.000	4.16	
G	M	37.8200	107.6631	9380	-9.000	3.70	
G	M	37.8200	107.6631	9380	14.760	4.58	
G	M	37.8200	107.6631	9380	19.790	4.44	
G	M	37.8200	107.6631	9380	22.710	4.36	
G	M	37.8200	107.6631	9380	25.360	4.65	
G	M	37.8200	107.6631	9380	13.100	4.08	
G	M	37.8200	107.6631	9380	98.000	5.00	
G	M	37.8200	107.6631	9380	90.000	5.10	
G	M	37.8200	107.6631	9380	85.000	5.10	
G	M	37.8200	107.6631	9380	-9.000	4.13	
G	M	37.8200	107.6631	9380	-9.000	4.86	
G	M	37.8200	107.6631	9380	15.300	4.60	
G	M	37.8200	107.6631	9380	15.000	5.10	
G	M	37.8200	107.6631	9380	43.000	4.40	
G	M	37.8200	107.6631	9380	43.000	4.59	
G	M	37.8200	107.6631	9380	14.869	3.83	
G	M	37.8200	107.6631	9380	15.024	4.02	
G	M	37.8200	107.6631	9380	-9.000	4.73	
S	M						3.7
G	M	37.8200	107.6631	9380	-9.000	4.19	
G	M	37.8200	107.6631	9380	-9.000	5.52	
G	M	37.8200	107.6631	9380	19.240	4.41	
		37.8200	107.6631	9380			4.32
		37.8200	107.6631	9380			4.74
		37.8200	107.6631	9380			4.24
		37.8200	107.6631	9380			4.09
		37.8200	107.6631	9380			4.12
		37.8200	107.6631	9380			3.89
G	M	37.8200	107.6631	9380	-9.000	4.47	
		37.8200	107.6631	9380			4.11
		37.8200	107.6631	9380			3.73
		37.8200	107.6631	9380			3.95
		37.8200	107.6631	9380			4.22
G	M	37.8200	107.6631	9380	-9.000	3.97	
G	M	37.8200	107.6631	9380	-9.000	4.41	
G	M	37.8200	107.6631	9380	-9.000	4.54	
G	M	37.8200	107.6631	9380	-9.000	5.09	
G	M	37.8200	107.6631	9380	-9.000	5.60	
G	M	37.8200	107.6631	9380	-9.000	5.26	
G	M	37.8200	107.6631	9380	-9.000	5.44	
G	M	37.8200	107.6631	9380	-9.000	5.10	

G	M	37.8200	107.6631	9380	-9.000	4.88	
G	M	37.8200	107.6631	9380	-9.000	5.54	
G	M	37.8200	107.6631	9380	-9.000	6.21	
		37.8200	107.6631	9380			4.78
G	M	37.8200	107.6631	9380	-9.000	4.20	
		37.8200	107.6631	9380			4.03
		37.8200	107.6631	9380			4.05
		37.8200	107.6631	9380			4.31
G	M	37.8200	107.6631	9380	-9.000	4.37	
		37.8200	107.6631	9380			4
G	M	37.8200	107.6631	9380	15.800	4.04	
		37.8200	107.6631	9380			4.36
G	M	37.8200	107.6631	9380	-9.000	4.00	
G	M	37.8200	107.6631	9380	-9.000	4.00	
G	M	37.8200	107.6631	9380	-9.000	3.95	
G	M	37.8200	107.6631	9380	-9.000	3.85	
G	M	37.8200	107.6631	9380	38.100	4.67	
G	M	37.8200	107.6631	9380	-9.000	4.09	
G	M	37.8200	107.6631	9380	-9.000	4.58	
G	M	37.8200	107.6631	9380	-9.000	4.10	
G	M	37.8200	107.6631	9380	-9.000	4.00	
G	M	37.8200	107.6631	9380	-9.000	4.77	
G	M	37.8200	107.6631	9380	-9.000	5.13	
G	M	37.8200	107.6631	9380	-9.000	4.77	
G	M	37.8200	107.6631	9380	-9.000	4.76	
G	M	37.8200	107.6631	9380	-9.000	5.39	
G	M	37.8200	107.6631	9380	65.561	4.51	
G	M	37.8200	107.6631	9380	-9.000	5.06	
G	M	37.8200	107.6631	9380	-9.000	4.67	
G	M	37.8200	107.6631	9380	-9.000	4.21	
G	M	37.8200	107.6631	9380	-9.000	3.90	
G	M	37.8200	107.6631	9380	-9.000	3.79	
G	M	37.8200	107.6631	9380		4.25	
G	M	37.8200	107.6631	9380	-9.000	3.64	
G	M	37.8200	107.6631	9380		3.53	
G	M	37.8200	107.6631	9380	15.628	3.59	
G	M	37.8200	107.6631	9380	-9.000	3.51	
G	M	37.8200	107.6631	9380	-9.000	4.36	
G	M	37.8200	107.6631	9380	17.640	4.10	
G	M	37.8200	107.6631	9380	-9.000	4.18	
G	M	37.8200	107.6631	9380	19.240	4.44	
G	M	37.8200	107.6631	9380	16.630	4.04	
G	M	37.8200	107.6631	9380	-9.000	3.88	
G	G	37.8200	107.6631	9380	17.800	3.96	
G	M	37.8200	107.6631	9380	15.650	3.44	
G	M	37.8200	107.6631	9380	-9.000	3.97	
G	M	37.8200	107.6631	9380		3.29	

G	G	37.8200	107.6631	9380	12.400	4.07
G	M	37.8200	107.6631	9380	-9.000	4.00
G	G	37.8200	107.6631	9380	12.700	3.57
G	M	37.8200	107.6631	9380	15.650	3.02
G	M	37.8200	107.6631	9380	-9.000	3.80
G	G	37.8200	107.6631	9380	12.800	3.65
G	M	37.8200	107.6631	9380		3.75
G	M	37.8200	107.6631	9380	-9.000	3.87
G	M	37.8200	107.6631	9380	-9.000	3.79
G	G	37.8200	107.6631	9380	22.200	3.63
G	M	37.8200	107.6631	9380	-9.000	4.21
G	M	37.8200	107.6631	9380	19.000	3.31
G	M	37.8200	107.6631	9380	-9.000	3.91
G	G	37.8200	107.6631	9380	39.000	4.14
G	M	37.8200	107.6631	9380	-9.000	4.09
G	M	37.8200	107.6631	9380		3.91
G	G	37.8200	107.6631	9380	120.000	4.21
G	M	37.8200	107.6631	9380	-9.000	4.53
G	G	37.8200	107.6631	9380	137.000	3.80
G	M	37.8200	107.6631	9380	-9.000	4.28
G	G	37.8200	107.6631	9380	71.600	4.28
G	M	37.8200	107.6631	9380	-9.000	4.74
G	G	37.8200	107.6631	9380	265.000	4.39
G	M	37.8200	107.6631	9380	116.000	3.82
G	G	37.8200	107.6631	9380	-9.00	4.95
G	M	37.8200	107.6631	9380	-9.00	4.95
G	G	37.8200	107.6631	9380	130.000	4.46
G	G	37.8200	107.6631	9380	148.000	4.63
G	G	37.8200	107.6631	9380	-9.00	5.50
G	M	37.8200	107.6631	9380	-9.00	5.50
G	G	37.8200	107.6631	9380	-9.00	5.36
G	M	37.8200	107.6631	9380	-9.00	5.36
G	G	37.8200	107.6631	9380	167.000	4.67
G	G	37.8200	107.6631	9380	-9.00	5.78
G	M	37.8200	107.6631	9380	-9.00	5.78
G	G	37.8200	107.6631	9380	120.000	4.02
G	M	37.8200	107.6631	9380		5.03
G	G	37.8200	107.6631	9380	67.300	4.53
G	G	37.8200	107.6631	9380	-9.00	5.26
G	M	37.8200	107.6631	9380	-9.00	5.26
G	G	37.8200	107.6631	9380	46.400	4.28
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380	18.000	4.01
G	G	37.8200	107.6631	9380	35.000	4.19
G	G	37.8200	107.6631	9380	22.700	3.99
G	G	37.8200	107.6631	9380	34.000	
G	G	37.8200	107.6631	9380	33.000	3.96

G	M	37.8200	107.6631	9380		
G	M	37.8200	107.6631	9380		3.56
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	44.000	4.51
G	M	37.8200	107.6631	9380	22.720	4.21
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	26.800	3.86
G	M	37.8200	107.6631	9380		4.09
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	16.600	
G	M	37.8200	107.6631	9380	-9.000	3.77
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	15.200	4.41
G	M	37.8200	107.6631	9380		3.53
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380	-9.000	3.25
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	14.500	3.85
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		3.58
G	G	37.8200	107.6631	9380	12.700	4.10
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	13	3.32
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	34.700	4.22
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	60.900	4.29
G	M	37.8200	107.6631	9380		3.22
S	M	37.8200	107.6631	9380	-9.00	
		37.8200	107.6631	9380		
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	110	4.23
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		5.18
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	29	3.13
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	17	3.47
G	M	37.8200	107.6631	9380		3.71
S	M	37.8200	107.6631	9380	-9.00	

G	G	37.8200	107.6631	9380	17.600	3.78
G	G	37.8200	107.6631	9380	19	3.55
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		3.61
G	G	37.8200	107.6631	9380		3.93
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		3.50
G	M	37.8200	107.6631	9380		3.80
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	-9	3.52
G	G	37.8200	107.6631	9380	13.200	3.44
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		3.49
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380	10	4.64
S	M	37.8200	107.6631	9380	-9.00	
G	G	37.8200	107.6631	9380		4.14
G	M	37.8200	107.6631	9380		4.40
G	G	37.8200	107.6631	9380	116.000	4.73
G	G	37.8200	107.6631	9380	114	4.02
G	G	37.8200	107.6631	9380	150.000	4.28
S	G	37.8200	107.6631	9380	170	4.63
G	G	37.8200	107.6631	9380	58	4.25
G	G	37.8200	107.6631	9380	66.9	5.12
G	G	37.8200	107.6631	9380	63.000	4.68
G	M	37.8200	107.6631	9380		4.37
G	M	37.8200	107.6631	9380		4.37
G	G	37.8200	107.6631	9380	46.300	4.48
G	M	37.8200	107.6631	9380		4.65
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	38	3.29
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380		3.91
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	20	3.38
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380	14.000	3.78
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	ND	3.49
S	M	37.8200	107.6631	9380	-9.00	
G	M	37.8200	107.6631	9380	10.000	4.01
S	M	37.8200	107.6631	9380	-9.00	
S	M	37.8200	107.6631	9380	ND	3.81
G	M	37.8200	107.6631	9380	126.000	3.95
S	M	37.8200	107.6631	9380	112	4.73
G	M	37.8200	107.6631	9380	23.000	3.7

S	M	37.8200	107.6631	9380	ND	3.43	
G	M	37.8200	107.6631	9380	21.000	3.57	
S	M	37.8200	107.6631	9380	ND	4.27	
G	M	37.8200	107.6631	9380		3.88	
S	M	37.8200	107.6631	9380	ND	4.02	
G	M	37.8200	107.6631	9380		5.06	
S	M	37.8200	107.6631	9380	ND	3.89	
G	M	37.8200	107.6631	9380		3.63	
S	M	37.8200	107.6631	9380	ND	3.67	
G	M	37.8200	107.6631	9380		3.83	
S	M	37.8200	107.6631	9380	ND	4.86	
G	M	37.8200	107.6631	9380		4.46	
S	M	37.8200	107.6631	9380	ND	4.02	
G	M	37.8200	107.6631	9380		3.51	
S	M	37.8200	107.6631	9380	ND	3.57	
G	M	37.8200	107.6631	9380		5.34	
S	M	37.8200	107.6631	9380	ND	4.25	
G	M	37.8200	107.6631	9380		3.61	
S	M	37.8200	107.6631	9380	ND	3.86	
G	M	37.8200	107.6631	9380		3.8	
S	M	37.8200	107.6631	9380	ND	3.4	
S	M	37.8200	107.6631	9380	ND	3.88	
G	M	37.8200	107.6631	9380		7	
S	M	37.8200	107.6631	9380	-9.00		
G	M	37.8200	107.6631	9380		3.43	
S	M	37.8200	107.6631	9380	-9.00		
S	M	37.8200	107.6631	9380	ND	4.63	
S	M	37.8200	107.6631	9380	-9.00		
G	M	37.8200	107.6631	9380		3.52	
S	M	37.8200	107.6631	9380	-9.00		
S	M	37.8200	107.6631	9380	ND	4.46	
S	M	37.8200	107.6631	9380	-9.00		
G	M	37.8200	107.6631	9380		3.96	
		37.8200	107.6631	9380			4.05
S	M	37.8200	107.6631	9380	ND	4.5	
		37.8200	107.6631	9380			4.17
		37.8200	107.6631	9380			3.82
G	M	37.8200	107.6631	9380		3.49	
		37.8200	107.6631	9380			3.35
S	M	37.8200	107.6631	9380	ND	3.51	
G	M	37.8200	107.6631	9380	23.00	3.44	
		37.8200	107.6631	9380			3.57
		37.8200	107.6631	9380			3.75
G	M	37.8200	107.6631	9380		3.54	
		37.8200	107.6631	9380			3.7
		37.8200	107.6631	9380			4.85
G	M	37.8200	107.6631	9380		3.45	

	G	M	37.8200	107.6631	9380	36.35		3.96	
	G	M	37.8200	107.6631	9380	-9.00		3.32	
	G	M	37.8200	107.6631	9380			3.32	
	G	M	37.8200	107.6631	9380	28.85		3.13	
	G	M	37.8200	107.6631	9380	-9.00		3.72	
iss.&tot values	G	M	37.8200	107.6631	9380			3.43	
	G	M	37.8200	107.6631	9380	-9.00		3.31	
	G	M	37.8200	107.6631	9380	-9.00		3.07	
	G	M	37.8200	107.6631	9380	-9.00		3.00	
	G	M	37.8200	107.6631	9380	22.000		3.44	
			37.8200	107.6631	9380				3.44
	G	M	37.8200	107.6631	9380	-9.00		3.45	
	G	M	37.8200	107.6631	9380	81.620		3.27	
	G	M	37.8200	107.6631	9380	81.62		3.27	
	G	M	37.8200	107.6631	9380	-9.00		4.75	
	G	M	37.8200	107.6631	9380	-9.00		4.78	
	G	M	37.8200	107.6631	9380	41.000		4.19	
	G	M	37.8200	107.6631	9380	-9.00		4.19	
	G	M	37.8200	107.6631	9380	-9.00		3.29	
	G	M	37.8200	107.6631	9380	12.460		3.46	
	G	M	37.8200	107.6631	9380	-9.00		3.17	
	G	M	37.8200	107.6631	9380	19		2.93	
	G	M	37.8200	107.6631	9380	18.600		3.45	
ilt	G	M	37.8200	107.6631	9380	20		2.89	
	G	M	37.8200	107.6631	9380	14		3.19	
	G	M	37.8200	107.6631	9380			3.45	
	G	M	37.8200	107.6631	9380			3.08	
	G	M	37.8200	107.6631	9380		12		
	G	M	37.8200	107.6631	9380			3.37	
	G	M	37.8200	107.6631	9380			3.33	
	G	M	37.8200	107.6631	9380		29		
	G	M	37.8200	107.6631	9380			3.58	
			37.8200	107.6631	9380				4.02
	G	M	37.8200	107.6631	9380		77		
S	G		37.8200	107.6631	9380		77		
hos/cm@25C			37.8200	107.6631	9380				4.71
			37.8200	107.6631	9380		30	3.65	
S	G		37.8200	107.6631	9380			3.52	
	G	M	37.8200	107.6631	9380		17		
S	G		37.8200	107.6631	9380		17		
S	G		37.8200	107.6631	9380		17		3.85
S	G		37.8200	107.6631	9380		211		3.55
	G	M	37.8200	107.6631	9380		20		
S	G		37.8200	107.6631	9380		13	3.24	
S	G		37.8200	107.6631	9380		20		3.57
S	G		37.8200	107.6631	9380		13	3.57	
S	**G**		**37.8200**	**107.6631**	**9380**		**13**		**3.7**

S	G	37.8200	107.6631	9380	12	3.7
S	G	37.8200	107.6631	9380	14	3.03
S	G	37.8200	107.6631	9380	16	3.03
hos/cm@25C. Interference on hardness. Extreme wind, snow on ground.		37.8200	107.6631	9380		3.03
S	G	37.8200	107.6631	9380	19	3.2
linity and hardness titrations		37.8200	107.6631	9380	19	3.2
S	G	37.8200	107.6631	9380	59	3.75
hos/cm@25C		37.8200	107.6631	9380		3.5
S	G	37.8200	107.6631	9380	142	3.75
S	G	37.8200	107.6631	9380	33	3.48
S	G	37.8200	107.6631	9380	33	2.8
	M	37.8028	107.6722	9240	33	3.48
		37.8200	107.6631	9380		3.11
S	G	37.8200	107.6631	9380	20	3.2
hos/cm@25C		37.8200	107.6631	9380		2.81
		37.8200	107.6631	9380		3.79
S	G	37.8200	107.6631	9380	38	3.62
ny. Conductivity 806umhos/cm@25C. Hardness EBT >Greyish Purple Never Went Blue		37.8200	107.6631	9380		3.08
		37.8200	107.6631	9380		2.89
		37.8200	107.6631	9380		3.2
		37.8200	107.6631	9380		3.31
S	G	37.8200	107.6631	9380	14	3.56
of snow. Conductivity 1010umhos/cm@25C		37.8200	107.6631	9380		3.56
						2.69
S	G	37.8200	107.6631	9380	119	4.3
						4.3
						4.42
S	G	37.8200	107.6631	9380	37	4.1
						4.1
						3.59
S	G	37.8200	107.6631	9380	20	3.66
						2.94
S	G	37.8200	107.6631	9380	20	3.71
						3.71
S		37.8200	107.6631	9380		3.7
						3.7
S		37.8200	107.6631	9380	40	3.81
						2.99
						3.41
S		37.8200	107.6631	9380		4.35
						4.35
						4.23
S		37.8200	107.6631	9380	125	5
						4.61
						3.35
S		37.8200	107.6631	9380	10	4.45

					10	4.45
						3.26
S		37.8200	107.6631	9380		3.98
						3.98
						3.25
S	G	37.8028	107.6722	9240		
~~ed later that day in lab~~		~~37.8200~~	~~107.6631~~	~~9380~~		~~7.52~~
						2.29
					12	3.27
S	G	37.8028	107.6722	9240	-9	3.86
						3.86
						3.36
S	G	37.8028	107.6722	9240	292	6.3
					292	6.3
		37.81780	-107.66180	9304	227	5.4
						4.5
		37.81780	-107.66180	9304	58	4.29
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~58~~	~~4.29~~
		~~37.81780~~	~~-107.66180~~	~~9304~~		
		~~37.81780~~	~~-107.66180~~	~~9304~~		
S	G	37.8028	107.6722	9240	43	4.75
hos/cm		37.8200	107.6631	9380		5.13
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~28~~	~~3.95~~
		37.81780	-107.66180	9304	28	3.95
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~28~~	~~3.95~~
		~~37.81780~~	~~-107.66180~~	~~9304~~		
						3.45
		37.81780	-107.66180	9304	18	3.51
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.51~~
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.51~~
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.51~~
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.51~~
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.51~~
		~~37.81780~~	~~-107.66180~~	~~9304~~		
		~~37.81780~~	~~-107.66180~~	~~9304~~		
S	G	37.8028	107.6722	9240	17	4.37
					17	3.5
		37.81780	-107.66180	9304	18	3.65
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.65~~
		~~37.81780~~	~~-107.66180~~	~~9304~~	~~18~~	~~3.65~~
		~~37.81780~~	~~-107.66180~~	~~9304~~		
						3.31
S	G	37.8028	107.6722	9240	18	2.8
					~~18.0~~	~~2.8~~
						3.47

37.81780	-107.66180	9304	15.3	3.5
37.81780	-107.66180	9304	15.3	3.5
37.81780	-107.66180	9304		
				3.36
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		3.5
37.81780	-107.66180	9304		
37.81780	-107.66180	9304		
				3.43
37.81780	-107.66180	9304	13.7	3.42
37.81780	-107.66180	9304	13.7	3.42
37.81780	-107.66180	9304	13.7	3.42
37.81780	-107.66180	9304		
				3.5
37.81780	-107.66180	9304	26.4	3.93
37.81780	-107.66180	9304	26.4	3.93
37.81780	-107.66180	9304	26.4	3.93
37.81780	-107.66180	9304	26.4	3.93
			40	4.15
			40	4.15
				4.77
37.81780	-107.66180	9304	137	5.34
37.81780	-107.66180	9304	137	5.34
37.81780	-107.66180	9304		
37.81780	-107.66180	9304		
			25	3.05
			25	3.05
37.81780	-107.66180	9304	21	3.57
37.81780	-107.66180	9304	21	3.57
37.81780	-107.66180	9304		
				3.57
			17	3.04
			17	3.04
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304	15	3.45
37.81780	-107.66180	9304		
37.81780	-107.66180	9304		

S	M					
		37.81780	-107.66180	9304		
						3.27
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304	15	3.51
		37.81780	-107.66180	9304		
		37.81780	-107.66180	9304		
					14	3.2
					14	3.2
						3.36
						3.42
S	M					3.42
						4.36
						3.33
S	M				12	3.33
S					14.9	3.54
						3.28
S	M				30	3.53
						3.38
						4.09
S					216	5.24
						3.88
S					65	4.54
						3.34
S					20.0	3.45
						3.04
S	M				17	4.41
S					17.0	3.51
						3.16
S					18.0	3.24
						5.66
S	M				17	5.66
						2.98
		37.8200	107.6631	9380		3.02
		37.8200	107.6631	9380		2.99
		37.8200	107.6631	9380		2.91
		37.8200	107.6631	9380		3.5
		37.8200	107.6631	9380		3.49
						4.43
		37.8200	107.6631	9380		3.96
		37.8200	107.6631	9380		3.04
		37.8200	107.6631	9380		2.95
					14	3.4

	37.8200	107.6631	9380		2.88
				15	3.68
ered 1430	37.8200	107.6631	9380		3
	37.8200	107.6631	9380		2.88
	37.8200	107.6631	9380		2.83
	37.8200	107.6631	9380		2.89
	37.8200	107.6631	9380		2.98
	37.8200	107.6631	9380		2.99
	37.8200	107.6631	9380		3.8
				91	4.43
mple	37.8200	107.6631	9380		4.54
	37.8200	107.6631	9380		3.39
	37.8200	107.6631	9380		3.34
	37.8200	107.6631	9380		3.07
	37.8200	107.6631	9380		3.61
	37.8200	107.6631	9380		2.93
	37.8200	107.6631	9380		3
	37.8200	107.6631	9380		2.98
	37.8200	107.6631	9380		2.93
	37.8200	107.6631	9380		3.02
	37.8200	107.6631	9380		3.14
					4.6
	37.8200	107.6631	9380		4.3
	37.8200	107.6631	9380		4.73
days	37.8200	107.6631	9380		3.34
	37.8200	107.6631	9380		3.04
				28	4
now	37.8200	107.6631	9380		3.91
	37.8200	107.6631	9380		3.38
	37.8200	107.6631	9380		3.42

pH-lab	TEMP_C	field Cond.	lab cond.	HARD_MG as CaCO3=	Field Alk mg/l	Phen_Alk Mg/l	Total alk. Mg/l	ACIDITY	CA_TOT_M
	-9.00		1150.00	635.00		-9.00		69.00	-9.0
	-9.00		1170.00	629.00		-9.00		55.30	-9.0
	-9.00		734.00	310.00		-9.00		46.80	-9.0
	14.40		750.00	503.00		-9.00		-9.00	
	9.00		715.00	343.00		-9.00		-9.00	
	8.60		575.00	317.00		-9.00		-9.00	
	6.90		687.00	438.00		-9.00		-9.00	
	9.00		685.00	430.00		-9.00		-9.00	
	5.00		-9.00	130.00		-9.00		-9.00	
	8.00		-9.00	140.00		-9.00		-9.00	
	3.50		-9.00	140.00		-9.00		-9.00	
	14.00			-9.00		0.00			
	7.00			-9.00		0.00			
	3.50		-9.00	-9.00		-9.00		-9.00	
	9.50		-9.00	607.00		-9.00		-9.00	
	12.50		176.00	269.00		-9.00		-9.00	
	8.00		686.00	259.00		-9.00		-9.00	
	2.90		1070.00	-9.00		-9.00		-9.00	-9.0
	7.80		910.00	609.00		-1.00		36.00	202.0
	19.10		460.00	323.00		-9.00		-9.00	-9.0
		1030		506					
	9.00			-9.00		0.00			
	0.00		960.00	0.00		0.00		0.00	216.0
	5.00			2.00		0.00			
		3		558			0	0	
		0		616			0	0	
		2					0	0	
		4		688			0	0	
		9		560			0	0	
		10		382			0	0	
	-9.00		779.00	-9.00		-9.00		-9.00	176.0
		15		436			0	0	
		5		454			0	0	
		10		72			0	0	
		8		422			0	0	
	7.00			240.00		0.00			
	3.00			234.00		0.00			
	3.00			152.00		0.00			
	2.00			324.00		0.00			
	-9.00		191.00	-9.00		-9.00		-9.00	23.0
	2.00			80.00		0.00			
	5.00			16.00		0.00			
	3.00			170.00		0.00			

9.00			92.00	0.00			
6.00			120.00	0.00			
4.00			316.00	0.00			
	6		300		0	0	
-9.00		851.00	-9.00	-9.00		-9.00	160.0
	14		152		0	0	
	10		546		0	0	
	3		130		0	0	
-9.00		1114.00	-9.00	-9.00		75.00	227.0
	0		634		0	0	
3.00		1611.00	291.15	-9.00		-9.00	-9.0
	0		656		0	0	
5.00			616.00	0.00			
2.00			800.00	0.00			
3.00			1460.00	0.00			
8.00			372.00	0.00			
9.90		620.00		-1.00		0.80	120.0
8.00			288.00	0.00			
6.00			428.00	0.00			
10.00			224.00	0.00			
10.00			114.00	0.00			
9.00			80.00	0.00			
-9.00		205.00	-9.00	-1.00		0.32	32.0
4.00			34.00	0.00			
5.00			152.00	0.00			
6.00			200.00	2.00			
10.90		350.00	182.60	-9.00		-9.00	-9.0
5.00			182.00	0.00			
5.00			230.00	0.00			
6.00			270.00	0.00			
9.00			284.00	20.00			
10.00			338.00	0.00			
		758.00		-1.00		0.90	140.0
7.00			480.00	0.00			
		889.00		-1.00		1.10	190.0
8.00		650.00	550.00	-9.00		-9.00	-9.0
-9.00			386.00	0.00			
5.00			456.00	0.00			
6.60		790.00	439.00				
5.00			406.00	0.00			
7.00		730.00	466.00	-9.00		-9.00	-9.0
3.00		800.00	496.00	-9.00		-9.00	-9.0
6.00			384.00	0.00			
5.8		930					142.9
2.00		860.00	513.00	-9.00		-9.00	-9.0
-3.00			528.00	0.00			
		187.00	-9.00	<5		1.50	200.0

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
	0.0		1071						156.6
	-2.00			546.00		0.00			
	1.7		960						162.3
	3.00		960.00	536.00		-9.00		-9.00	-9.0
	20.00			540.00		0.00			
	1.5		1105						160.3
			1129.00			-1.00		1.40	200.0
	8.00			448.00		0.00			
	10.00			376.00		0.00			
	6.8		746						91.1
	5.00			364.00		0.00			
	3.00		790.00	480.00		-9.00		-9.00	-9.0
	10.00			-9.00		0.00			
	8.0		561						83.1
	10.00			280.00		0.00			
			384.00			-1.00		1.00	49.0
	5.0		288						32.2
	5.00			110.00		0.00			
	5.8		217						29.9
	2.00			186.00		0.00			
	6.2		324						48.0
	4.00			60.00		0.00			
	3.2		210						21.0
	7.00		220.00	89.00		-9.00		-9.00	-9.0
	4.0			82.0		0.0			
	4.0	82.0		**0.0**					
	9.6		166						29.1
	7.6		209		1.7				25.2
	4.0			84.0		0.0			
	4.0	84.0		**0.0**					
	5.0			112.0		2.0			
	5.0	112.0		**2.0**					
	5.9		234		2.4				28.5
	5.0			160.0		2.0			
	5.0	160.0		**2.0**					
	2.3		316						34.5
			409.00			-1.00		-1.00	56.0
	8.6		387						59.1
	11.0			272.0		2.0			
	11.0	272.0		**2.0**					
	11.1		476						70.0
-9.00	6.0			292.0		0.0	-9.0		-9.0
	7.90		500.00	281.00		-9.00		-9.00	-9.0
	6.6		581						85.1
	10.2		696		0.0				110.4
					0.0				90.8
	12.5		540		0.0				171.2

			984.00			-1.00		-1.00	150.0
3.98	21.0			242.0		0.0	0.0		-9.0
-9.00	7.0			346.0		0.0	-9.0		-9.0
	5.1		499						63.0
	4.70		610.00	396.00		-9.00		-9.00	-9.0
-9.00	8.0			276.0		0.0	-9.0		-9.0
	7.3		646						28.7
			774.00			-1.00		-1.00	160.0
-9.00	4.0			260.0		0.0	-9.0		-9.0
									39.4
	3.50		780.00	538.00		-9.00		-9.00	-9.0
-9.00	3.0			492.0		0.0	-9.0		-9.0
	7.7		1006						194.3
			963.00			-1.00		-1.00	200.0
-9.00	0.0			688.0		0.0	-9.0		-9.0
	4.60		920.00	588.00		-9.00		-9.00	-9.0
-9.00	1.0			516.0		0.0	-9.0		-9.0
	3.6		967						196.4
-9.00	1.0			604.0		0.0	-9.0		-9.0
			993.00			-1.00		-1.00	200.0
	6.2		1113						213.0
-9.00	5.0			556.0		0.0	-9.0		-9.0
-9.00	0.0			474.0		0.0	-9.0		-9.0
	5		820	579					
-9.00	7.0			464.0		0.0	-9.0		-9.0
	5.2		697						119.3
-9.00	12.0			282.0		0.0	-9.0		-9.0
-9.00	5.0			170.0		0.0	-9.0		-9.0
	7.4		437						114.3
			443.00			-1.00		15.00	78.0
-9.00	9.0			152.0		0.0	-9.0		-9.0
		9			152		0		
-9.00	2.0			160.0		0.0	-9.0		-9.0
-9.00	2.0			156.0		0.0	-9.0		-9.0
	6		280	161					
-9.00	5.0			200.0		0.0	-9.0		-9.0
-9.00	5.0			117.0		0.0	-9.0		-9.0
	-9.00		285.00	-9.00	-9.00	-1.00		23.00	46.0
-9.00	5.0			176.0		0.0	-9.0		-9.0
-9.00	6.0			214.0		0.0	-9.0		-9.0
-9.00	-9.0			254.0		0.0	-9.0		-9.0
	11		620	398					
-9.00	13.0			434.0		0.0	-9.0		-9.0
	20.9		1254	432					
	-9.00		932.00	-9.00	-9.00	-1.00		51.00	160.0
-9.00	12.0			456.0		0.0	0.0		-9.0
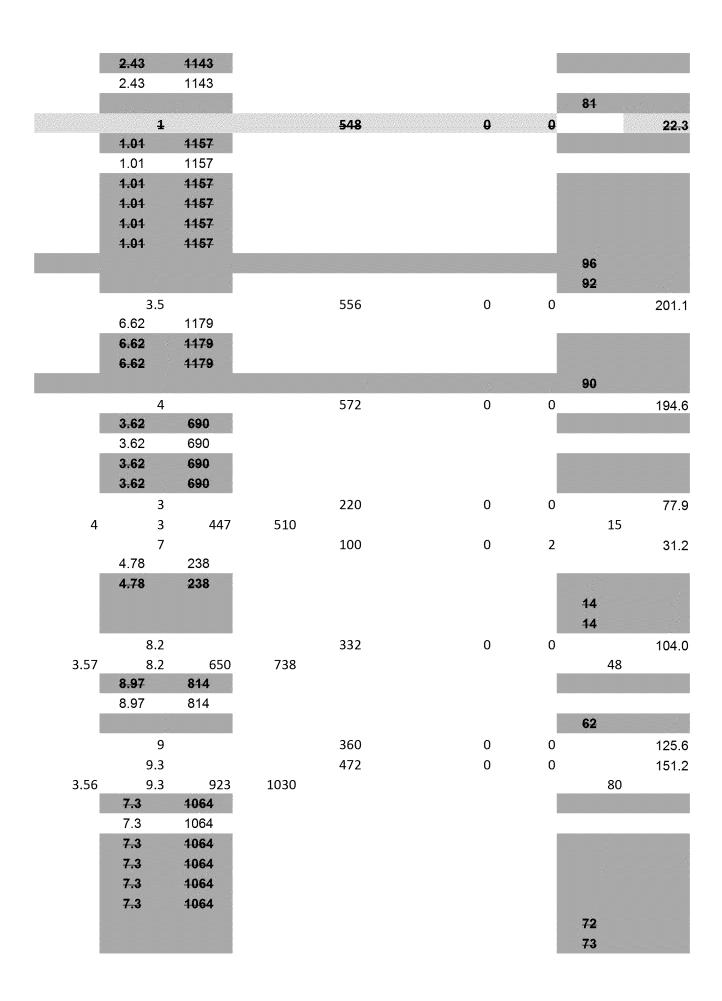
	12.1		963						171.6
	9		810	497					
3.92	10.0			572.0		0.0	0.0		-9.0
			844.00			-1.00		61.00	170.0
	4.9		923						
3.98	5.0			444.0		0.0	0.0		-9.0
			881.00			-1.00		92.00	190.0
	-9.00		1100.00	-9.00	-9.00	-1.00		92.00	190.0
-9.00	0.0			516.0		0.0	-9.0		-9.0
	1		870	631					
	5.4		1108						
-9.00	6.0			550.0		0.0	-9.0		-9.0
	-9.00		736.00	-9.00	-9.00	-1.00		90.00	180.0
-9.00	8.0			490.0		0.0	-9.0		-9.0
-9.00	3.0			448.0		0.0	-9.0		-9.0
	2		860	493					
-9.00	8.0			250.0		0.0	-9.0		-9.0
	6.7		505						
	-9.00		900.00	-9.00	-9.00	-1.00		95.00	160.0
	8.1		274						
	5		180	81					
	8.0		215						
	ND		172	81.7					
	9		270	133					
	8.3		355		0.8				
	12.2		380		0.3				
		406	440	<5				<5	59.0
			406			<5		<5	59.0
	11.3		498						
		436		<5				30	73.0
4.00	11.0			320.0		0.0	0.0		79.8
	8.2	740		419					
4.02	-9.0			528.0		0.0	0.0		125.7
		937		<5				60	180.0
4.04	10.0			530.0		0.0	0.0		143.7
	5	850		579					
4.35	0.0			576.0		0.0	0.0		153.6
4.3	1.7	957	1100	587.6				<5	220.0
3.89	2.0			604.0		0.0	0.0		179.0
	3.1	890		670					
4.40	8.0			572.0		0.0	0.0		180.2
4.2	2.1	888	980	515.6			<5	75	190.0
6.03	4.0			274.0		0.0	10.0		178.1
	3.4	800		540					
4.3	4.5	291	350	131.4			<5	35	47.0
	8.1	260		142					
4	9.1	718	800	378.4			<5	47	140.0

	12.7	710		393					
3.8	9.4	781	840	362.5			<5	<5	130.0
	8.9	840		524					
4	2.8	856	990	432.5			<5	110	160.0
	2.7	920		543					
4.7	-0.2	958	1200	564.3			<5	120	210.0
	5.2	1000		709					
3.8	3.5	1050	1200				<5	84	
	6.9	760		428					
4.3	6.1	347	410	150.9			<5	71	54.0
	7.9	230		113					
5.5	11.9	486	510	229.1			<5	34	84.0
	20	650		324					
3.84	9.4	811	890	406.3			<5	87	150.0
	5.9	830		486					
3.73	4	465	1100	485.7			<5	65	180.0
	1.2	830		530					
3.75	5.5	847	1000	594.6			<5		220.0
	4.3	850		564					
3.74	1	972	1100				<5		200.0
	5.1	530		260					
	5.4	470		233					
3.5	8.4	211	596.1				<1		56.8
4.50	11.0			430.0		0.0	0.0		149.2
3.59	12.9	948	733				<1		172.0
3.86	14.0			528.0		0.0	0.0		174.7
	11.4	850		472					
4.17	14.0			520.0		0.0	0.0		174.6
3.52	10.2	1080	1130				<1		199.0
3.69	9.0			440.0		0.0	0.0		128.5
	6.4	650		435					
3.88	6.0			440.0		0.0	0.0		143.4
	0.6	869					<1	69	192.0
		2			456		0	0	172.9
	3.6	860		529					
		0			882		0	0	151.7
		1			540		0	0	157.6
3.32	0.6	874	1110				<1	84	182.0
		4			520		0	0	180.0
	1.2	830		490					
	1.3			540.0		0.0	0.0		135.8
					540		0	0	145.3
		0			342		0	0	104.0
3.36	7.1	481	664				<1	48	99.6
	7.1				258		0	0	78.4
		3			88		0	0	27.5
3.91	16.1	557	589				<1	30	98.2

	16.1			270.0	0.0	0.0			77.1
	12.0			382.0	0.0	0.0			110.1
3.6	6.9	715	807				-9	68	114.0
	6.9			354.0	0.0	0.0			80.6
	8.5			392.0	0.0	0.0			96.5
3.55	0	864	1050				<1	72	168.0
	0.0			536.0	0.0	0.0			136.5
	0.0			246.0	0.0	0.0			140.0
	0.0			528.0	0.0	0.0			146.4
3.76	1.3	940	647				<1	81	189.0
	1.3			540	0	0			135.8
	7.0			288.0	0.0	0.0			85.3
3.97	6.1	311	356				<1	34	44.4
	6.1			140.0	0.0	0.0			44.6
	8.0			92.0	0.0	0.0			29.8
	8.0			184.0	0.0	0.0			38.6
4.13	8	452	528				<1	26.7	81.4
	8.0			216.0	0.0	0.0			72.8
	10.0			420.0	0.0	0.0			129.1
3.44	6.5	882	962				<1	72	165.0
	10.0			416.0	0.0	0.0			142.5
	6.0			380.0	0.0	0.0			94.2
	3.6	757						69	
	3.6			406.0	0.0	0.0			114.5
	2.0			466.0	0.0	0.0			128.2
				488					120.8
	-1			502					117.7
3.41	3.6	645						87.5	
				414					100.6
				324					102.6
3.58	4.3	602						60	
				196					94.5
	4			152	0	0			28.2
4.88	8.8	330						30	47.3
4.26			368					7.7<1	
	8.8			152	0	0			47.3
	11			400					100.2
	5.8								152.7
3.52	5.8	869						80	
3.60			1020					8.25<1	
	9.5			416	0	0			135.4
3.6	9.5			448	0	0			143.5
3.55	3.6	817						170	
	3.5			600	0	0			166.6
				532	0	0			171.3
3.67	0	962	1150					7.3<1	
	3				0	0			182.4

	3			454	0	0		162.7
	1			428	0	0		154.2
3.95	0.9	972	1150				2.31<1	
	0.9				0	0		161.7
	4			-9	0	0		
	4			427	0			154.2
3.75	4.9	435	465				0.721	60.4
	4.9			172				60.4
	6			98	0	0		34.4
	8.7			332	0	0		97.1
3.68	8.7	650	743				15.1<1	
	8.7			332		0		95.8
	9.5			332	0	0		115.2
3.54	10	957	1110				7.39<1	
	10			480	0	0		187.7
	7			216	0	0		66.9
3.85	2.1	806	787				10.1<1	
	2.1			384	0	0		125.9
	0			524	0	0		164.1
	0			570	0	0		202.2
	1			510	0	0		184.1
3.58	2.2	1010	1240				92	88.3
	2.2			570	0	0		88.3
	6			436				138.4
4.18	5.2	318	405				40	
	5.2			166				45.1
	6			100				31.3
3.89	11	573	639				40	
	11			260				87.4
	13			256				93.6
3.5	9.6	981	1090				82	
	7.5			340				124.8
3.46	6.2	925	1080					
	0.6			448				69.1
3.68	2.5	990	1230				84	
	6			576				197.8
3.53	0.4	967	1220				90	
	11			592				182.9
	13			504				157.6
3.99	5.3	387	451				34	
	5.3			288	0	0		53.3
	8			88	0	0		23.2
3.9	8.2	372	428				28	
	12			160	0	0		52.3
	11			338	0	0		103.9
3.44	8.9	870	1020					

	8.9			440	0	0		138.7
	8.5			516	0	0		157.1
3.59	0.3	960	1160				35	
	0.3			508	0	0		168.2
	2.5			536	0	0		174.5
3.52			1220<1				86	
	3			50	0	10		88.3
	3.5			524	0	0		181.6
3.57	0.5	1036	1220				85	
3.5	3.7	995	1180<1				72	
	3.7			488	0	0		169.1
	5.5			488	0	0		177.6
5.09	4.5	177	161<1				28	
	4.5			86	0	0		26.5
	5.24	203						
	5.5			132	0	0		46.6
	9.01	467						
	9.01	467					28	
							26.3	
4.04	8.6	546	605<1				31	
	0			274	0	22		89.3
	10.01	678						
	10.01	678						
	10.01	678					39	
	9			464	0	0		158.9
	8.46	1050						
	8.46	1050						
	8.46	1050						
	8.46	1050						
	8.46	1050						
							72	
							71	
3.55	7.8	989	1050<5				<5	
	7.8			456	0	0		154.7
	5.44	1045						
	5.44	1045						
	5.44	1045						
							79	
	5			484	0	0		160.5
3.53	2.9	960	1120<5				120	
3.53	2.9	960	1120				120	
	1			458	0	0		11.6

2.43   1143
2.43   1143

81

1   548   0   0   22.3

1.01   1157
1.01   1157
1.01   1157
1.01   1157
1.01   1157
1.01   1157

96
92

3.5   556   0   0   201.1

6.62   1179
6.62   1179
6.62   1179

90

4   572   0   0   194.6

3.62   690
3.62   690
3.62   690
3.62   690

3   220   0   0   77.9

4   3   447   510   15

7   100   0   2   31.2

4.78   238
4.78   238

14
14

8.2   332   0   0   104.0

3.57   8.2   650   738   48

8.97   814
8.97   814

62

9   360   0   0   125.6

9.3   472   0   0   151.2

3.56   9.3   923   1030   80

7.3   1064
7.3   1064
7.3   1064
7.3   1064
7.3   1064
7.3   1064

72
73

	6			504	0	0		156.5
	3	1058						
	3	1058						
	3	1058						
	3	1058						
	3	1058						
	3	1058						
							78	
							75	
	2.8			512	0	0		155.0
3.48	2.8	869	1100				102	
	2.5			544	0	0		166.9
	-0.2			520	<.1	<.1		198.0
3.67	-2	823	1200				115	
	0			548	<.1	<.1		191.9
	0.2778			552	<.1	<.1		190.5
3.51	0	11019	1220				100	
	6.36	1093		493			80	
	6			332	<.1	<.1		114.3
3.74	2.4	816	935				60	
	8			164	<.1	<.1		58.5
	7.5			96	<.1	2		28.2
	7.99	188		76			12	
	12			132	<.1	<.1		45.8
	8.41	436		191			24	
	11			340	<.1	<.1		92.5
	9.16	914		398			67	
	9.6			504	<.1	<.1		146.5
3.52	9.6	934	1040				82	
	7.92	1044		474			77	
	2			456	<.1	<.1		145.1
	3.09	992		435			81	
	0.6			468	<.1	<.1		162.6
3.61	0.6	923	1070				80	
	0			524	<.1	<.1		175.8
	2.5			564	0	0		174.284
	3.5			572	0	0		177.158
	2.5			584	0	0		184.36
				268	0	268		85.18
	4			192	0	0		62.499
				180				63.7
	7.5			174	0	0		60.696
	10.3			432	0	0		153.772
	12.5			528	0	0		147.419
				515				189

9	560	0	0	197.802
	515			192
4	556	0	0	203.952
0	612	0	0	219.774
0	632	0	0	187.484
0	568	0	0	177.649
0	564	0	0	194.732
2	496	0	0	172.727
6	212	0	0	69.089
	129			46
11.5	164	0	0	56.3
15	416	0	0	157.074
7.5	358	0	0	119.947
10.5	390	0	0	138.394
8	292	0	0	101.898
2	416	0	0	147.26
0	480	0	0	167.691
2	528	0	0	160.907
1	536	0	0	180.722
0.5	544	0	0	175.499
2	320	0	0	97.306
	126			43.9
9.5	78	0	2	36.791
10.5	168	0	0	54.334
11.5	336	0	0	110.368
8.5	468	0	0	242.912
	67			24.3
2.5	288	0	0	138.126
2	464	0	0	138.454
3	500	0	0	190.258

CA_DIS_MG	Ca as CaCC Totals	MG_TOT	MG_DIS	AL_TOT	AL_DIS	AG_TOT	AG_DIS	AS_TOT	AS_DIS
-9.0		-9.0	-9.0	-9.0	5900.0	-9.000	<10	-9.000	-9.000
-9.0		-9.0	-9.0	-9.0	5500.0	-9.000	<10	-9.000	-9.000
-9.0		-9.0	-9.0	-9.0	4400.0	-9.000	<10	-9.000	-9.000
-9.0	470.00	8.0	-9.0	4600.0	4500.0	<.2	<.2	-9.000	-9.000
-9.0	310.00	8.1	-9.0	4700.0	4400.0	<.2	<.2	-1.000	-9.000
-9.0	290.00	6.5	-9.0	5000.0	4200.0	0.200	<.2	-9.000	-9.000
-9.0	410.00	6.7	-9.0	4200.0	3600.0	<.2	<.2	-9.000	-9.000
-9.0	400.00	7.4	-9.0	3800.0	3500.0	<.2	<.2	-9.000	-9.000
-9.0	-9.00	-9.0	-9.0	-9.0	1700.0	-9.000	0.050	2.000	-9.000
-9.0	-9.00	-9.0	-9.0	-9.0	1300.0	-9.000	<.2	-9.000	-9.000
-9.0	-9.00	-9.0	-9.0	-9.0	1500.0	-9.000	<.2	-9.000	-9.000
-9.0	-9.00	-9.0	-9.0	-9.0	4300.0	-9.000	<.2	-9.000	-9.000
-9.0	570.00	9.0	-9.0	-9.0	4500.0	-9.000	<.2	-9.000	-9.000
-9.0	250.00	4.7	-9.0	-9.0	2600.0	-9.000	-9.000	-9.000	-9.000
-9.0	240.00	4.7	-9.0	-9.0	2500.0	-9.000	-9.000	-9.000	-9.000
-9.0		-9.0	-9.0	-9.0	5000.0	-9.000	14.000	-9.000	<5
-9.0		26.0	-9.0	-9.0	5500.0	-9.000	10.000	-9.000	<5
-9.0		-9.0	-9.0	-9.0	2330.0	-9.000	-9.000	-9.000	-9.000
	190.0		7.7		4640		< 1.00		
0.0		10.0	0.0	4100.0	3900.0	<.2	<.2	-1.000	<5
-9.0		19.0	12.0	5277.0	5470.0	<.2	<.2	-1.000	<5
-9.0		6.0	-9.0	3310.0	3265.0	<.2	<.2	-1.000	<5

-9.0	7.4	-9.0	4100.0	3690.0	<.2	<.2	-1.000	<5
-9.0	33.0	-9.0	3815.0	3810.0	<.2	<.2	-1.000	<5
250.0	-9.0	10.0	5800.0	5800.0	-9.000	-9.000	5.000	<1
-9.0	5.8	-9.0	4000.0	3800.0	<5	<5	-1.000	<5
-9.0	2.2	-9.0	1800.0	1200.0	<5	<5	-1.000	<5
-9.0	-9.0	-9.0	-9.0	2060.0	-9.000	-9.000	-9.000	-9.000
	5.9		3900.0	3900.0	<5	<5	<5	<5
	8.2		5200.0	4900.0	<5	<5	5.000	<5
-9.0	-9.0	-9.0	-9.0	5580.0	-9.000	-9.000	-9.000	-9.000
162.6	8.0		5183.0	5001.0			2.100	0.000
-9.0	-9.0	-9.0	-9.0	5320.0	-9.000	-9.000	-9.000	-9.000
-9.0	-9.0	-9.0	-9.0	5720.0	-9.000	-9.000	-9.000	-9.000
171.2	8.2	8.7	5558.0	5707.8			0.0	0.0
-9.0	-9.0	-9.0	-9.0	5890.0	-9.000	-9.000	-9.000	-9.000
-9.0	9.5	-9.0	6700.0	6700.0	<5	<5	6.000	<5

176.3	8.9	8.9	6083.3	6086.2			0.0	0.0
179.9	9.0	8.5	5899.9	5720.7			0.0	0.0
-9.0	-9.0	-9.0	-9.0	6590.0	-9.000	-9.000	-9.000	-9.000
168.7	8.9	8.4	6202.5	5983.9			0.0	0.0
	8.4		6100.0	5400.0	<5	<5	8.000	<5
115.8	5.5	6.0	3104.7	4145.9			0.0	0.0
-9.0	-9.0	-9.0	-9.0	6220.0	-9.000	-9.000	-9.000	-9.000
81.5	5.3	5.0	3059.0	3164.2			0.0	0.0
	3.6		3000.0	2600.0	<5	<5	-1.000	<5
30.4	2.9	2.5	2549.0	1906.3			0.0	0.0
29.6	2.5	2.3	1943.6	1758.3			0.0	0.0
45.9	3.3	3.2	2616.2	2308.6			0.0	0.0
21.0	3.0	1.8	3496.6	882.5			0.0	0.0
-9.0	-9.0	-9.0	-9.0	1750.0	-9.000	-9.000	-9.000	-9.000
29.7	2.3	2.3	1561.2	1381.0			0.0	0.0
27.6	2.0	2.1	1252.0	1163.8			0.0	0.0
31.9	2.2	2.4	1312.2	1224.7			0.0	0.0
39.4	2.5	2.8	1354.2	1224.5			0.0	0.0
	3.7		2200.0	1900.0	<.1	<.1	-1.000	<5
61.3	3.7	3.9	2047.0	1788.6			0.0	0.0
72.0	4.1	4.6	2206.1	2494.7			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	3360.0	-9.000	-9.000	-9.000	-9.000
89.9	4.8	5.4	2655.0	3076.8			0.0	0.0
	5.6		3918.5	0.0			0.0	0.0
	38.2		118707.6	0.0			0.0	0.0
	66.0		229780.5	0.0			0.0	0.0

135.0		6.7	**0.0**	3936.3			0.0	0.0
	7.3		4400.0	4300.0	<.1	<.1	-1.000	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
83.1	3.7	5.0	2064.3	2720.3			0.0	0.0
-9.0	-9.0	-9.0	-9.0	4290.0	-9.000	-9.000	-9.000	-9.000
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
106.2	5.6	5.7	3225.3	3194.6			0.0	0.0
	7.5		4700.0	4600.0	<.1	<.1	-1.000	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
163.4	7.7	8.0	4767.3	5105.5			0.0	0.0
-9.0	-9.0	-9.0	-9.0	5460.0	-9.000	-9.000	-9.000	-9.000
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
160.7	9.5	8.5	6344.4	5403.2			0.0	0.0
	8.2		5500.0	5400.0	<.1	<.1	-1.000	5.000
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	5950.0	-9.000	-9.000	-9.000	-9.000
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
171.0	9.5	8.9	6406.6	5834.3			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
	9.4		6500.0	6600.0	<.1	<.1	7.000	<5
183.9	10.0	8.8	7398.5	6139.8			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
				7480.0				
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
117.2	6.3	6.3	4131.3	4243.3			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
68.1	7.4	4.1	4947.6	2881.1			0.0	0.0
	4.5		3200.0	3000.0	<5	<5	-1.000	6.000
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
				1700.0				
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	3.0	-9.0	1500.0	860.0	<.1	<.1	-1.0	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
				3670.0				
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
160.0		7.8	4705.0	4920.0	BDL	<.2	5.4	<1
-9.0	7.2	-9.0	4500.0	4700.0	<.1	<.1	-1.0	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0

153.3	8.9	7.8	5409.7	4812.4			0.0	0.0
				6080.0				
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
	8.4		5400.0	5100.0	<5	<5	7.000	<5
172.2		8.7	-9.0	5796.9			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
	8.6		6000.0	6100.0	<5	<5	6.000	<5
-9.0	8.6	-9.0	6000.0	6100.0	<5	<5	6.0	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
				7080.0				
173.9		8.8	-9.0	5545.8			0.0	0.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	8.2	-9.0	5500.0	5500.0	<5	<5	6.0	<5
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
				5270.0				
-9.0	-9.0	-9.0	-9.0	-9.0			-9.0	-9.0
128.6		6.4	-9.0	4253.9			0.0	0.0
-9.0	7.3	-9.0	4900.0	-9.0	<5	-9.0	6.0	<5
37.4		2.8	-9.0	1867.0			0.0	0.0
				1310.0				
28.4		2.1	-9.0	1637.0			0.0	0.0
29.1		2.2	3012.0	780.0	0.2	<.2	2.6	<1
				1330.0				
53.0		3.7	-9.0	94.0			0.0	0.0
56.8		4.6		888.0				
	4.8		7600.0	2600.0	0.7	<.1	11	<5
	4.8		7600.0	2600.0	0.7	<.1	11	<5
76.2		4.6		2934.9				
	4.7		3500.0	2900.0	0.1	<.1	<5	<5
76.7	5.7	5.6	4282.0	3819.0			16.0	<15
				5780.0				
119.9	7.2	6.7	5492.0	5329.0			<15	<15
	8.2		5400.0	5700.0	<.1	<.1	5	<1
137.8	8.3	7.9	6293.0	6178.0			<15	<15
				6320.0				
143.8	9.3	8.2	5313.0	5051.0			<15	<15
	9.3		5900.0	6100.0	<.1	<.1	5	1
179.6	9.6	9.7	5519.0	5195.0			16.0	<15
				6390.0				
173.3	8.8	9.4	6028.0	5002.0			17.0	<15
	10.0		7000.0	7400.0	<.2	<.2	6	2
184.3	9.6	10.0	5691.0	5587.0			<15	<15
				6610.0				
	3.4		3600.0	2000.0	<1	<1	<10	<10
				1470.0				
	7.0		4400.0	4400.0	<1	<1	3	<1

						5850.0				
		9.2			12000.0	5100.0	1.6	<.1	18	1
						6160.0				
		8.0			5000.0	4500.0	<.1	<.1	4	<1
						6030.0				
		9.7			4900.0	5900.0	<.1	<.1	2	7
						5940.0				
220.0			9.2		6400.0	6200.0	<.1	<.1	6	<1
						5040.0				
		3.9			4400.0	2400.0	0.2	<.1	9	<1
						1340.0				
		4.7			2000.0	2000.0	<.1	<.1	<5	<5
						3930.0				
		7.7			5300.0	5100.0	<.1	<.1	5.6	<5
						5990.0				
18.0		8.8	8.7		6400.0	6200.0	<.1	<.1	5.9	<5
						6600.0				
		11.0			7700.0	7100.0	<.1	<.1	<5	<5
						7270.0				
		10.0			9000.0	6100.0	<.1	<.1	6.6	1.3
						4170.0				
						3320.0				
			9.1		1340.0	<3	0.8	0.27	8.6	6.5
146.6		7.2	7.4		4471.0	4308.0			<15	<15
		9.5			5060.0	5040.0	<.9	<.1	5	<1
109.6		17.4	8.3		5337.0	**52.0**			<15	<15
						5760.0				
166.5		8.3	8.2		5135.0	4870.0			<15	<15
196.0		10.6			5410.0	4530.0	<1	<1	6	<1
126.9		8.0	8.2		4050.0	3883.0			<15	<15
						5740.0				
127.5		7.6	6.7		6834.0	5106.0			<15	<15
		10.0			5450.0	5150.0	<1	<1	6	1
	171.9		7.3	5.9	5340	4864			0	0
						6950.0				
	150.7		7.1	6.3	5883	5340			0	0
	158.2		9.1	7.3	6314	5993			0	0
		10.0			5980.0	5650.0	<1	<1	6	2
	178.9		10.7	10.1	7202	7209			0	0
						8680.0				
136.0		8.2	8.6		6345.0	6321.0			<15	<15
	144.2		8.8	8.6	6548	5297			0	0
	100.2		6.8	6.7	5267	4907			0	0
		6.8			4.3	4.6	<0.2	<0.45	3.79	<1
	74.6		5.4	5.2	4253	3955			0	0
	26.3		2.2	2.2	1850	874			0	0
		6.4			3085.0	2774.0	<0.2	<0.2	2.91	<1

75.5		5.7	5.7	3125.0	2938.0			<15	<15
103.6		7.6	7.1	7247.0	3995.0			<15	<15
		7.4		5760.0				4	
78.8		6.5	6.4	4906.0	4584.0			<15	<15
94.4		6.9	6.8	5068.0	4611.0			<15	<15
		9.0		5820.0	6220.0	<.2	<.2	6	<1
0.0		8.6	0.0	6071.0	-9.0			<15	<15
138.5		9.4	8.6	6519.0	5753.0			<15	<15
143.8		9.6	8.3	6961.0	6808.0			<15	<15
		10.3		8120.0	7180.0	<.2	<.2	6	1
	136.0	8.2	8.6	6345	6321			0	0
84.0		6.7	6.9	5526.0	5387.0			<15	<15
		3.7		2830.0	2620.0	<.2	<.2	4	<1
39.9		3.5	2.9	3355.0	2433.0			<15	<15
28.2		2.3	2.3	1863.0	1449.0			<15	<15
38.2		3.2	3.3	1693.0	1249.0			<15	<15
		5.7		2730.0	2520.0	<.2	<.2	2	<1
70.5		5.6	5.6	3142.0	2766.0			<15	<15
128.8		9.5	10.0	6119.0	5948.0			<15	<15
		10.0		7500.0	6800.0	<.2	<1	4	<1
137.1		11.4	11.0	7067.0	6692.0			<15	<15
94.2		6.7	6.9	5697.0	5404.0			<15	<15
154.0			10.0	5150.0	5950.0	0.2	0.2	4	1
112.5		7.6	7.0	6264.0	6257.0			<15	<15
126.1		8.6	8.2	7535.0	7197.0			<15	<15
106.8		9.9	8.9	6843.0	6695.0			34	24
102.6		9.2	8.7	6774.0	6569.0			19	<15
	1721 U		11	7100	6860	<.2	<.2	0.004	<1
89.7		7.9	7.9	5759.0	5529.0			19	<15
102.4		6.8	6.7	5169.0	4825.0			<15	<15
	1151 U		8	4990	4320	<.2	<.2	0.003	<1
93.9		6.7	6.4	4500.0	4436.0			<15	<15
	27.8	2.6	2.6	1391	1120			0	0
	521 U		4	1890	1350	<.2	<.2	0.001	<1
	52.0		4.0	1890	1350	<.2	<.2	1	<1
	46.4	3.9	3.9	1644	1218			0	0
	61.0	7.2	4.4	4313	2673				
	148.2	9.7	9.7	6856	6634			0	0
		1	10.0	6770	6770	<.2	<.2	4	4
	154.0		10.0	6770	6770	<.2	<.2	4	4
	131.2	10.1	9.4	10670	10340			0	0
	139.8	9.5	9.0	6288	5828			0	0
			10.0	6400	6260	<.2	<.2	4	<1
	163.6	11.1	10.8	7668	7363			0	0
	170.1	11.4	10.9	7062	6830			0	0
	186.0		11.0	7070	6550	0.4	0.4	6	2
	177.4	**11.7**	**11.4**	**8514**	**7733**			**0**	**0**

161.7		11.6	11.5	6963	6678				0	0
142.3		10.3	6.4	6646	5683				0	0
159.0			9.0	7420	6710	<.2	<.2		7<1	
162.7		11.6	11.5	6963	6678				0	0
142.3		10.3	6.4	6646	5683				0	0
57.0			4.0	2930	2370	<.2	<.2		2<1	
60.2		5.1	5.0	3195	2945				0	0
34.4		3.0	2.8	1591	1200				0	0
95.8		7.8	7.7	4269	4163				0	0
99.0			7.0	3860	4280	0.3	<.2		3<1	
97.1		7.8	7.7	4269	4163			<15	<15	
112.9		8.4	8.1	4945	4653				0	0
152.0		10.5	9.0	6350	6620	<.2	<.2		5<1	
64.2		10.5	9.4	6505	20				0	0
65.5		5.7	5.7	3322	3174				0	0
113.0			8.9	5220	4640	119.279	<.2		4<1	
119.3		9.5	8.9	5581	5511				0	0
162.0		11.4	11.1	7479	7445				0	0
177.8		12.0	11.9	7821	7631				0	0
181.8		12.3	12.0	6931	6825				0	0
196.5	<1		11.0	8100	8190	86.917	<.2		6<1	
196.5		12.6	12.6	7878	7739				22	0
138.4		10.0	9.4	5043	5754	89.286			-1	-10
45.0	<1		3.0	2850	2360	<.2	<.2		2<1	
45.1		3.6	3.0	2417	2160				0	
31.3		1.9	2.2	1584	987				0	0
97.3	<1		7.0	4010	3370	<.2	<.2		3<1	
87.4		6.4	5.4	3485	3340				0	0
93.6		6.2	4.0	5875	3974				0	0
150.0	<1		9.0	6800	6200	<10	<10		5<1	
124.8		9.5	9.2	5286	5186				0	0
148.0	<1		9.0	6180	6460	<.2	<.2		5<1	
69.1		6.9	4.5	6866	1995				0	0
201.0	<1		10.0	7770.0	7220.0	<.2	<.2		3	2
197.8		9.6	8.5	7663	7497				164	63
185.0	<1		10.0	7860.0	7730.0	<.2	<.4		5	2
182.9		12.8	12.3	7635	7075				40	0
157.6		11.2	11.4	6833	6267				0	15
68.0	<1		5.0	2910.0	2660.0	<.2	<.2		<1	<1
53.3		4.9	4.4	2846	2517				0	0
23.2		3.4	2.1	4472	755				0	0
66.0	<1		5.0	2330.0	2380.0	<.2	<.2		2	<1
52.3		3.9	3.9	2248	2185				0	0
103.9		7.1	6.8	4774	4540				0	0
167.0	<1		10.0	13200.0	13000.0	<.2	<.2		4	2

138.7		8.9	8.7	6247	6114				0	0
157.1		10.3	10.0	6880	6796				0	0
-9.0	<1		-9.0	6660.0	-9.0	<.2		-9	6	-9
168.2		10.8	9.9	7508	7130				0	0
174.5		10.9	10.6	7229	7002				0	0
195.0			11.0	6130	6820	<.2	<.2		6	1
86.9		7.5	7.2	4750	2253				0	0
181.6		11.6	11.1	7884	7867				0	0
200.0<5			11.0	8390.0	8150.0	<.2	<.2		6.0	2.0
189.0			11.0	6750	7280	<.2	<.2		6	1
169.1		10.2	10.4	7680	7662				0	0
177.6		11.3	9.9	8739	8273				0	0
25.0			2.0	3190	661	0.3<.2			7<1	
26.5		3.0	2.2	3560	671				0	0
28.6			2.4	1780	751	<0.5	<0.5		<4.0	<4.0
46.6		4.0	3.5	1945	1902				0	0
67.6			4.8	2920	2890	<0.5	<0.5		<4.0	<4.0
89.0			6.0	3300	3260	<.2	<.2		3<1	
81.4		5.9	5.0	3331	3227				0	0
106.0			7.0	4120	4050	<0.5	<0.5		<4.0	<4.0
158.9		10.1	9.9	6789	6779				0	0
170.0			10.4	7110	7050	<0.5	<0.5		<4.0	<4.0
174000			10.5	7010	7040	<0.5	<0.5		<4.0	<4.0
164.0			10.0	6590	6550	<.2	<.2		5<1	
154.7		10.7	10.6	7689	7526				0	0
171.0			10.4	7050	6930	<0.5	<0.5		4	<4.0
160.5		11.0	10.7	6080	5985				0	0
187.0			11.0	7800	7060	<.2	<.2		5	1
187.0<5			11.0	7800.0	7060.0	<.2	<.2		5.0	1.0
11.6		9.1	1.8	43	0				0	0

180.0		11.0	7850	7850	<0.5	<0.5	5.4	<4.0
22.3	57.1	3.5	182	21			0	0
209.0		11.9	8610	8390	<0.5	<0.5	7.7	<4.0
208000		11.8	8560	8450	<0.5	<0.5	7.1	<4.0
201.1	12.3	12.4	9006	8075			0	0
198.0		11.2	8100	7820	<0.5	<0.5	6.6	<4.0
194.6	11.8	11.3	8179	7996			0	0
109.0		7.1	5010	4820	<0.5	<0.5	<4.0	<4.0
107000		6.9	5020	4840	<0.5	<0.5	<4.0	<4.0
77.9	5.3	5.1	3804	3502			0	0
73.0<5		5.0	3340.0	2830.0<.2	<.2	<1		2.0
31.2	2.7	2.5	1835	991			0	0
31.0		2.5	1750	907	<0.5	<0.5	<4.0	<4.0
29700		2.4	1720	1050	<0.5	<0.5	<4.0	<4.0
104.0	7.0	6.9	4450	4210			0	0
113.0<5		7.0	4680.0	4430.0<.2	<.2		2.0<1	
125.0		8.0	5270	5090	<0.5	<0.5	<4.0	<4.0
125.6	8.7	8.7	6292	5942			0	0
151.2	9.7	9.4	7070	6637			0	0
159.0<5		9.0	6940.0	6450.0<.2	<.2		11.0<1	
186.0		10.9	7230	7310	<0.1 U	<0.1 U	<1.0 U	<1.0 U
181000		10.9	6930	7440	<0.1 U	<0.1 U	<1.0 U	<1.0 U

156.5	9.6	9.3	7009	6695			0	0
179.0		11.5	7930	7720	<0.1 U	<0.1 U	4.3	<1.0 U
188000		11.2	7810	7400	<0.1 U	<0.1 U	4.2	<1.0 U
155.0	9.5	9.5	6957	6789			0	0
169.0<1		10.0	7110.0	6580.0<.2	<.2		5<1	
166.9	10.6	9.7	7350	6694			0	0
195.1	12.5	11.6	7658	7280			<15	<15
204.0<5		11.0	7850.0	7030.0<.2	<.2		5	2
177.2	10.9	10.0	6699	5845			<15	<15
182.8	11.1	10.9	8360	7091			<15	<15
218.0<5		13.0	7560	7510<.2	<.2		6	2
480.0		10.5	7540	7660	<0.5	<0.5	5	<4.0
100.7	7.5	7.1	5504	4663			<15	<15
154.0<5		9.0	6280	6050<.2	<.2		4	1
58.3	4.1	4.0	3380	2833			<15	<15
26.5	2.4	2.0	1930	1098			<15	<15
26.4		2.4	1610	798	<0.5	<0.5	<4.0	<4.0
40.1	3.2	2.8	1676	1222			<15	<15
68.2		5.0	2710	2410	<0.5	<0.5	<4.0	<4.0
91.8	5.9	5.7	3924	3795			<15	<15
144.0		9.4	5830	6030	<0.5	<0.5	<4.0	<4.0
141.6	8.7	8.5	6227	5580			<15	<15
175.0<5		10.0	6300	5630<.2	<.2		4<1	
173.0		10.3	6770	7290	<0.5	<0.5	<4.0	<4.0
135.6	8.9	8.4	5762	5757			<15	<15
158.0		9.7	6810	6770	<0.5	<0.5	<4.0	<4.0
162.4	10.0	9.6	5679	5285			<15	<15
173.0<5		10.0	7040	6620<.2	<.2		5<1	
171.5	10.2	10.3	8584	6533			<15	<15
165.336	9.772	9.559	6867	6657			0	0
176.126	9.529	9.651	6826	6823			0	0
162.338	11.466	9.62	7677	6963			0	0
84.672	5.946	5.978	3732	3651			0	0
61.011	4.111	3.884	2779	2509			0	0
64.6	4.48	4.51	2690	2470				
58.497	4.173	3.994	2172	1386			0	0
148.274	8.748	8.675	5634	5540			0	0
146.597	8.684	8.528	5889	5740			0	0
188	11.3	11.1	7670	7480			4.81	

196.825	10.882	10.687	7469	7217		0	0
188	11500	11100	7890	7520	4.92		
194.713	11.335	10.846	8131	7708		0	0
216.096	12.614	12.753	9799	9715		0	0
179.058	11.717	11.007	8961	0		0	0
175.394	10.605	10.5	0	0		0	0
184.571	11.082	10.601		10029		0	0
171.926	10.574	10.249	8917	0		0	0
68.353	4.483	4.471	4398	4268		0	0
46	3.63	3.53	2690	2290			
54.604	3.936	3.951	2036	1519		0	0
152.209	9.242	9.024	7932	7708		0	0
117.093	8.146	7.881	6745	4636		0	0
133.971	9.073	9.117	6546	6122		13	0
101.905	7.283	7.315	4461	4368		0	0
142.849	8.67	8.432	8223	7945		0	0
167.146	9.531	9.631	9209	7815		0	0
160.524	10.652	10.433	8468	8420		0	0
175.054	10.311	10.238	9608	9342		0	0
171.914	11.181	10.99	9521	9318		0	0
96.348	5.901	5.776	5764	5558		0	0
44.6	3770	3620	3280	2360	4.43		
33.419	2.507	2.574	1813	474		0	0
53.229	4.542	3.645	2617	1300		0	0
106.64	7.827	7.558	6370	5977		0	0
222.814	12.614	11.62	9717	8699		0	0
24.3	1.58	1.58	938	938	3.09		
134.906	8.811	8.316	5707	5075		0	0
135.993	10.319	10.469	7320	7282		0	0
175.719	12.802	11.811	10387	9577		0	0

AU_DIS	B_TOT	B_DIS	BR_DIS	SB_TOT	SB_DIS	BA_TOT	BA_DIS	BE_TOT	BE_DIS
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
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-9.000	-9.000	-9.000	<10	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
				0.04	< 1.00			13	< 1.00
0.000	-9.000	-9.000	0.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
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-9.000	-9.000	-9.000	-9.000	-1.000	-1.000	11.500	4.000	7.000	6.000

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-9.000   -9.000   -9.000   -9.000   -1.000   -1.000   22.000   18.000   -1.000   -1.000

-9.000   -9.000   -9.000   -9.000   -9.000   -9.000   24.000   -9.000   -1.000   -9.000
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                                     -1.000   -1.000   -1.000   -1.000   -1.000   -1.000
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                                      0.000    0.000   12.400   10.600    0.000    0.000

-9.000   -9.000   -9.000   -9.000   -9.000   -9.000   -9.000   -9.000   -9.000   -9.000
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                                                       11.7     13.4     <1       <1
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-9.000   -9.000   -9.000   -9.000   <50      <50      <50      <50      <4       <4
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						12.5	11.5	1.1	<1
						10.8	10.2	<1	<1
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						9.8	8.4	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						12.1	13.3	<1	<1
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
						17.1	14.7	<1	<1
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						31.7	19.3	<1	<1
						22.6	20.1	<1	<1
						20.3	17.7	<1	<1
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						22.5	20.2	<1	<1
						20.2	19.4	<1	<1
						20.4	20.2	<1	<1
						16.7	19.0	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						17.0	19.0	<1	<1
						18.2	18.8	<1	<1
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
						17.1	17.5	<1	<1
						20.8	**0.0**	1.2	**0.0**
						1283.2	**0.0**	8.7	**0.0**
						1322.6	**0.0**	24.6	**0.0**

						0.0	19.4	0.0	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						18.3	20.1	<1	<1
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
						<2	14.3	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						<2	11.8	<1	1.2
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
						15.6	11.6	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
						15.0	11.6	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						16.7	16.8	2.2	<1
						17.8	17.0	<1	2.4
						37.7	17.6	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
-9.0	-9.0	-9.0	-9.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
				BDL	BDL	14	13	1	1
-9.0	-9.0	-9.0	-9.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0

						24.4	15.4	<1	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
						0.0	20.6	0.0	<1
				-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
-9.0	-9.0	-9.0	-9.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
						0.0	8.6	0.0	<1
-9.0	-9.0	-9.0	-9.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
						0.0	16.0	0.0	4.2
-9.0	-9.0	-9.0	-9.0	-1.0	-9.0	-1.0	-9.0	-1.0	-9.0
						0.0	26.5	0.0	2.1
						0.0	18	0.0	<1
				BDL	BDL	37	18.9	BDL	BDL
						0.0	19	0.0	<1
							222.824		<1
				<50	<50	110	<50	<4	<4
				<50	<50	110	<50	<4	<4
							20.829		<1
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				8	<1	12	14	<1	<1
				<1	<1	12	12	<1	<1
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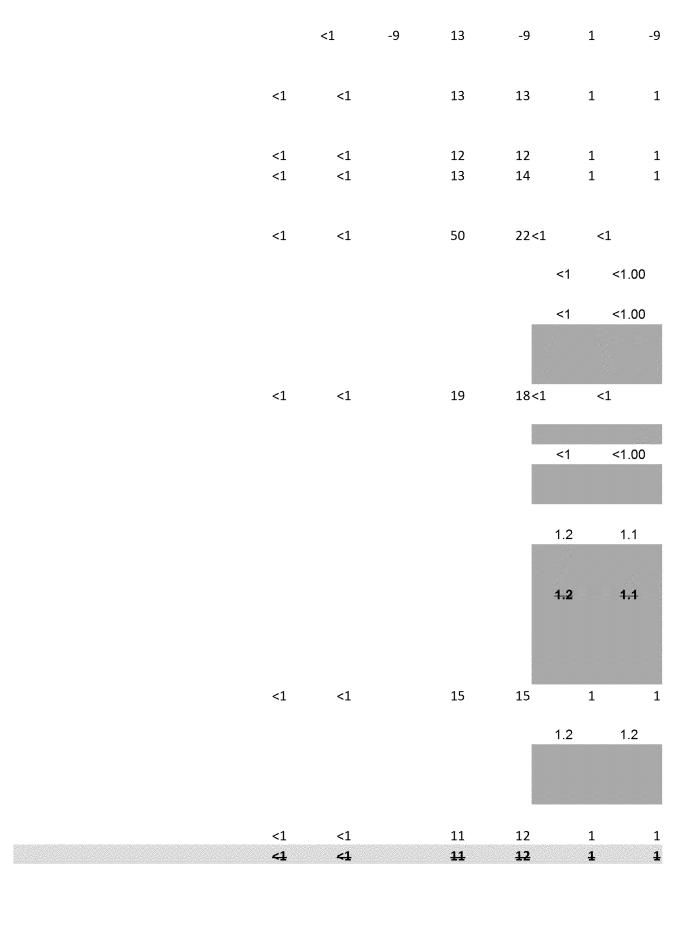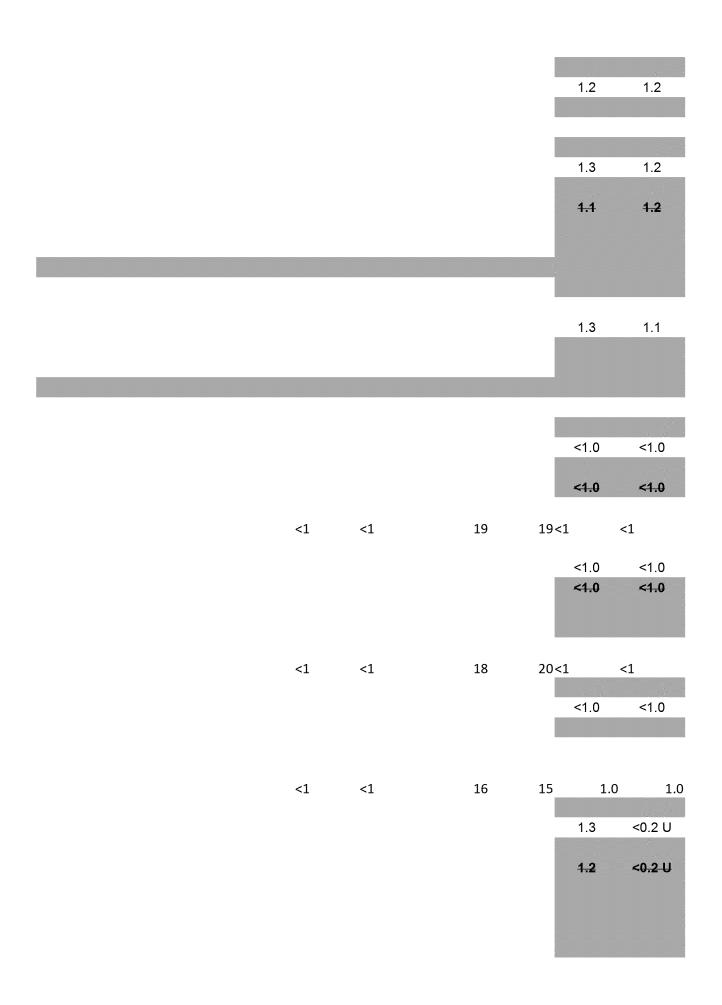
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	<1	<1	14	14	2	1
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	<1	<1	26	22	<1	<1
	<2	<1	19	20	<1	<1
	<1	**<1**	**16**	**17**	**<1**	**<1**

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<1	<1	13	13	1	1
<1	<1	12	12	1	1
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<1	<1	50	22<1	<1	

<1   <1.00

<1   <1.00

| <1 | <1 | 19 | 18<1 | <1 | |

<1   <1.00

1.2   1.1

1.2   1.1

| <1 | <1 | 15 | 15 | 1 | 1 |

1.2   1.2

| <1 | <1 | 11 | 12 | 1 | 1 |
| <1 | <1 | 11 | 12 | 1 | 1 |

1.2   1.2

1.3   1.2

1.1   **1.2**

1.3   1.1

<1.0   <1.0

<1.0   **<1.0**

<1   <1   19   19<1   <1

<1.0   <1.0

<1.0   **<1.0**

<1   <1   18   20<1   <1

<1.0   <1.0

<1   <1   16   15   1.0   1.0

1.3   <0.2 U

1.2   **<0.2 U**

1799563

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				1.2	1.1

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				<1.0	1.3
<1	<1	15	16 <1	<1	
				<1.0	<1.0
				<1.0	<1.0
				<1.0	1.1
<1	<1	15	14	1	1
				1	1.1
				1	1
<1	<1	12	16	1	1

15.5

34.9   18

CO_TOT	CO_DIS	CD_TOT	CD_DIS	CU_TOT	CU_DIS	CR_TOT	CR_DIS	CN_TOT	NFE_TOT
-9.000	-9.000	-9.00	1.40	-9.00	40.00	-9.00	<20	-9.00	-9.00
-9.000	-9.000	-9.00	2.00	-9.00	20.00	-9.00	<20	-9.00	-9.00
-9.000	-9.000	-9.00	4.00	-9.00	250.00	-9.00	<20	-9.00	-9.00
-9.000	-9.000	3.30	5.10	57.00	57.00	-1.00	-1.00	-9.00	4800.00
-9.000	-9.000	3.70	3.70	77.00	73.00	-1.00	-1.00	-1.00	8100.00
-9.000	-9.000	3.80	3.80	98.00	90.00	-1.00	-1.00	-9.00	7200.00
-9.000	-9.000	4.00	3.30	96.00	86.00	-1.00	-1.00	-9.00	7800.00
-9.000	-9.000	3.60	3.60	91.00	87.00	-1.00	-1.00	-9.00	7500.00
-9.000	-9.000	3.60	3.60	120.00	110.00	-9.00	-9.00	-1.00	5000.00
-9.000	-9.000	5.10	5.40	120.00	110.00	-9.00	-9.00	-9.00	4900.00
-9.000	-9.000	4.60	4.60	130.00	120.00	-9.00	-9.00	-9.00	5000.00
		3.21	2.74	151.00	-9.00				38830.00
		3.63	-9.00	73.50	-9.00				9304.00
-9.000	-9.000	2.80	2.70	47.00	41.00	-9.00	-9.00	-9.00	8600.00
-9.000	-9.000	3.10	3.00	46.00	44.00	-9.00	-9.00	-9.00	7500.00
-9.000	-9.000	3.53	3.97	120.00	110.00	-9.00	-9.00	-9.00	4200.00
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-9.000	-9.000	-9.00	2.00	-9.00	30.00	-9.00	<20	-9.00	-9.00
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-9.000	-9.000	4.00	3.00	106.00	150.00	-9.00	-9.00	-9.00	3220.00
		12		3		47	< 1		
		3.23	3.10	102.80	98.30				4679.00
-9.000	-9.000	2.70	2.90	33.00	40.00	-1.00	-1.00	0.00	8200.00
		2.75	2.58	63.10	56.20				0.00
		2.28	2.16	45.3	41.9				10460
		2.42	2.3	44.5	38.9				15950
		3.24	3.04	80.2	49.5				4283
		3.17	3.07	58.1	52.4				7381
		4.01		70.1					7013
									7650
17.000	22.000	4.00	5.00	113.00	120.00	7.00	5.00	-9.00	10100.00
		3.71	3.31	71.5	68.6				7287
		3.39	3.03	61.7	59.2				6300
		3.63	3.38	59.5	58.8				5823
		2.92	2.57	47.8	45.4				5953
		4.12	4.50	45.70	45.20				3077.00
		4.52	4.04	53.60	52.50				6315.00
		5.28	3.43	61.50	60.60				3096.00
		4.48	3.75	53.90	50.20				0.00
-1.000	-1.000	2.20	1.80	110.00	94.00	-1.00	-1.00	-9.00	4525.00
		1.51	1.41	59.30	57.80				4620.00
		1.74	1.81	62.40	61.20				3108.00
		1.86	1.87	62.40	61.90				3720.00

		1.74	1.52	53.80	50.60				5213.00
		4.88	2.33	53.70	52.80				4012.00
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		1.67	1.51	12.5	13.9				5760
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		2.04	2.17	31.00	31.70				4900.00
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-1.000	-1.000	-1.00	<5	99.00	94.00	-1.00	-1.00	-9.00	4600.00
		6.70	6.46	0.00	0.00				4058.00
		1.81	1.96	11.90	11.90				2948.00
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-9.000	-9.000	-9.00	3.00	-9.00	66.00	-9.00	-9.00	-9.00	-9.00
		2.06	2.16	35.70	35.70				3335.00
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		2.43	2.86	99.90	81.40				3588.00
		2.64	2.60	86.70	89.20				3981.00
12.000	11.000	3.60	<5	98.00	96.00	-1.00	-1.00		4000.00
		1.40	1.81	41.80	34.60				6060.00
16.000	16.000	-1.00	<5	36.00	33.00	-1.00	-1.00		6900.00
-9.000	-9.000	-9.00	2.00	-9.00	18.00	-9.00	-9.00	-9.00	-9.00
		1.56	1.35	36.60	34.00				5515.00
		1.79	1.73	44.80	42.80				7743.00
13.100	16.300	2.10	1.80	26.30	30.60	0.00	0.00		7992.60
		1.87	1.83	36.40	37.30				6470.00
-9.000	-9.000	-9.00	1.00	-9.00	40.00	-9.00	-9.00	-9.00	-9.00
-9.000	-9.000	-9.00	1.00	-9.00	26.00	-9.00	-9.00	-9.00	-9.00
		1.93	1.88	38.70	40.00				5779.00
		<2	<2	37.04	37.74	<15	<15		8520.23
-9.000	-9.000	-9.00	1.00	-9.00	3.00	-9.00	-9.00	-9.00	-9.00
		2.02	1.84	44.80	44.80				14790.00
17.000	14.000	<5	<5	32.00	30.00	5.00	<5	-9.00	12000.00

		<2	<2	26.16	27.68	<15	<15		12726.43
		1.34	1.36	28.50	31.60				13080.00
		<2	<2	25.49	21.71	<15	<15		12051.77
-9.000	-9.000	-9.00	2.00	-9.00	26.00	-9.00	-9.00	-9.00	-9.00
		1.42	1.32	42.20	29.70				6106.00
		<2	<2	24.91	22.09	<15	<15		10107.37
15.000	20.000	-1.00	<.1	26.00	180.00	-1.00	-1.00		12000.00
		1.64	1.68	50.00	35.00				5712.00
		1.70	1.61	64.70	67.00				10910.00
		<2	4.72	32.21	44.19	<15	<15		7303.11
		1.88	1.87	67.60	64.70				5781.00
-9.000	-9.000	-9.00	2.00	-9.00	39.00	-9.00	-9.00	-9.00	-9.00
		1.74	1.55	41.20	44.10				5199.00
		<2	2.30	60.25	57.26	<15	<15		288.52
		2.37	1.97	48.60	45.50				4312.00
7.000	9.000	-1.00	<.1	100.00	100.00	-1.00	-1.00		9500.00
		3.81	<2	127.51	118.28	<15	<15		14856.28
		2.18	2.09	99.10	88.40				3927.00
		2.93	2.09	108.23	109.67	<15	<15		4278.20
		2.44	2.37	99.70	96.60				4344.00
		3.48	2.29	118.49	114.58	<15	<15		4610.23
		1.87	1.76	91.90	81.30				6443.00
		<2	<2	102.42	87.50	<15	<15		10861.47
-9.000	-9.000	-9.00	3.00	-9.00	120.00	-9.00	-9.00	-9.00	-9.00
		2.36	2.36	66.10	69.90				2379.00
		2.36	2.36	66.10	2.40				2379.00
		<2	<2	98.07	101.71	<15	<15		3235.00
		3.18	<2	80.71	87.81	<15	<15		2831.92
		2.13	1.92	65.10	65.10				2495.00
		2.13	1.92	65.10	1.90				2495.00
		2.17	2.16	64.00	63.20				2166.00
		2.17	2.16	64.00	2.20				2166.00
		4.77	<2	89.98	101.02	<15	<15		2810.71
		2.03	2.17	60.90	60.90				2556.00
		2.03	2.17	60.90	2.20				2556.00
		<2	<2	83.55	89.67	30.82	<15		3021.83
6.000	6.000	2.70	2.70	100.00	100.00	-1.00	-1.00		4200.00
		2.08	<2	88.27	93.14	<15	<15		3675.57
		2.13	2.16	76.70	76.70				2710.00
		2.13	2.16	76.70	2.20				2710.00
		<2	<2	87.43	86.87	<15	<15		2234.91
		2.42	2.28	70.00	66.10				2566.00
-9.000	-9.000	-9.00	3.00	-9.00	80.00	-9.00	-9.00	-9.00	-9.00
		<2	<2	77.31	75.29	21.36	<15		2585.04
		<2	0.00	68.65	0.00	<15	0.00		5152.24
		<2	0.00	606.10	0.00	52.74	0.00		630909.79
		<2	0.00	2154.92	0.00	77.13	0.00		887053.53

		0.00	<2	0.00	50.00	0.00	<15		0.00
13.000	18.000	1.70	1.80	41.00	14.00	-1.00	-1.00		6400.00
		1.37	1.24	42.90	40.60				4405.00
		1.46	1.56	44.30	43.20				6068.00
		<2	<2	62.12	80.21	<15	<15		3762.67
-9.000	-9.000	-9.00	2.00	-9.00	50.00	-9.00	-9.00	-9.00	-9.00
		1.80	1.42	61.00	46.90				3674.00
		10.05	2.51	79.37	51.95	<15	<15		5496.57
14.000	14.000	1.90	1.90	38.00	36.00	-1.00	1.00		7300.00
		2.39	2.36	38.50	35.60				5991.00
		5.43	<2	38.54	31.49	<15	<15		7256.31
-9.000	-9.000	-9.00	2.00	-9.00	40.00	-9.00	-9.00	-9.00	-9.00
		2.09	2.13	35.20	35.50				7943.00
		<2	<2	35.30	31.02	<15	<15		9149.67
16.000	18.000	1.80	2.00	30.00	40.00	-1.00	6.00		13000.00
		1.65	1.53	39.80	37.60				5323.00
-9.000	-9.000	-9.00	-1.00	-9.00	30.00	-9.00	-9.00	-9.00	-9.00
		1.87	1.75	39.90	35.00				5229.00
		<2	2.50	23.54	30.43	<15	<15		8974.39
		2.07	1.82	43.40	34.30				3925.00
1.600	1.700	1.80	<.1	29.00	28.00	5.00	-1.00		9400.00
		<2	<2	28.60	30.42	<15	<15		10225.86
		1.67	1.70	31.70	29.30				6661.00
		1.60	1.70	38.90	37.30				6155.00
			1.00		50.00				
		1.60	-9.00	36.80	-9.00				3515.00
		<2	<2	29.53	46.36	<15	<15		8417.35
		2.04	1.67	48.20	46.90				6308.00
		2.61	2.39	68.60	66.20				5492.00
		7.45	<2	176.48	83.16	<15	<15		11473.09
8.000	9.000	2.90	2.90	77.00	77.00	-1.00	-1.00		6900.00
		2.52	2.05	68.30	71.10				5780.00
		2.52	2.05	68.3	71.1				5780
		2.05	0.81	89.90	36.00				5427.00
		2.37	2.57	61.00	58.70				3561.00
			2.00		80.00				
		2.46	2.32	57.20	57.40				3156.00
		1.69	1.61	85.10	59.10				3061.00
-1.0	-1.0	2.20	2.30	74.00	67.00	-1.00	-1.00	-9.00	3600.00
		1.81	1.77	61.80	60.80				3650.00
		1.81	-9.00	69.70	-9.00				3867.00
		1.91	1.67	86.00	80.50				3750.00
			2.00		50.00				
		1.64	-9.00	53.60	-9.00				4449.00
17	12	1.30	1.40	38.00	39.00	BDL	BDL		4583.00
14.0	11.0	1.80	1.60	33.00	29.00	7.00	-1.00	-9.00	5400.00
		1.46	1.29	29.90	26.90				4163.00

		<2	<2	34.79	26.15	<15	<15		8134.09
		2.00		30.00					
		2.31	1.73	29.60	28.30				4207.00
15.000	14.000	2.00	2.00	40.00	35.00	-1.00	-1.00		8500.00
		0.00	<2	0.00	42.49	0.00	<15		-9.0
		1.56	1.77	31.90	33.20				5657.00
18.000	22.000	1.60	1.60	27.00	24.00	7.00	6.00		9400.00
18.0	22.0	1.60	1.60	27.00	24.00	7.00	6.00	-9.00	9400.00
		1.44	1.50	33.80	28.70				5822.00
		1.00		<10					
		0.00	<2	0.00	19.11	0.00	<15		-9.0
		1.23	1.33	31.80	23.60				6405.00
17.0	19.0	1.80	1.90	35.00	24.00	-1.00	-1.00	-9.00	9400.00
		1.49	1.46	35.50	31.90				5372.00
		4.93	3.56	75.80	69.30				7625.00
		2.00		54.00					
		2.02	1.95	59.10	54.30				5079.00
		0.00	<2	0.00	43.14	0.00	<15		-9.0
14.0	-9.0	2.40	-9.00	36.00	-9.00	-1.00	-9.00	-9.00	11000.00
		0.00	3.27	0.00	98.20	0.00	22.92		-9.0
		1.00		100.00					
		0.00	3.48	0.00	92.26	0.00	0.00		-9.0
BDL	BDL	2.10	2.40	101.80	90.10	BDL	BDL		5975.00
		2.00		2.00					
		0.00	6.41	0.00	128.82	0.00	0.00		-9.0
		<2		22.36		<15			
8	<5	9.90	7.50	140.00	140.00	<5	<5		14000.00
8	<5	9.90	7.50	140.00	140.00	<5	<5		14000.00
		7.16		149.42		<15			
9	8	8.70	11.00	140.00	130.00	<1	<1		7000.00
		1.83	1.76	24.20	212.50				7474.00
		13.00		78.00					
		21.80	20.97	187.10	183.60				7760.00
16	15	12.00	13.00	110.00	110.00	<1	<1		7900.00
		21.78	20.58	143.90	140.80				9070.00
		2.00		33.00					
		2.35	1.86	36.20	34.40				15620.00
17	17	1.80	2.30	32.00	32.00	<1	<1		10000.00
		2.14	2.20	35.40	34.00				9060.00
		2.00		25.00					
		3.23	3.19	59.10	43.60				14310.00
20	18	1.60	2.20	27.00	27.00	<1	<1		15000.00
		2.05	1.95	32.70	32.60				12737.00
		2.00		11.00					
<5	<5	5.80	5.90	110.00	110.00	<1	<1		8500.00
		3.00		64.00					
12	10	6.50	6.90	110.00	110.00	<1	<1		5200.00

			3.00		62.00			
18	16	5.80	6.00	140.00	100.00	<5	<5	30000.00
			7.00		113.00			
14	15	5.70	6.10	92.00	84.00	1.00	<1	9100.00
			3.00		40.00			
17	18	4.60	4.70	33.00	47.00	<1	<1	12000.00
			2.00		21.00			
<50	<50	1.60	1.70	20.00	21.00	<1	<1	13000.00
			2.00		40.00			
6	6	5.20	5.30	120.00	110.00	2.00	<1	18000.00
			3.00		90.00			
6	6	4.10	4.30	75.00	69.00	<1	<1	4000.00
			7.00		110.00			
11	<1.5	2.10	2.20	33.00	32.00	<1	<1	8300.00
			2.00		31.00			
<15	16	1.90	2.00	25.00	25.00	<1	<1	8700.00
			2.00		30.00			
13	15	1.90	1.80	24.00	22.00	<1	<1	15000.00
			2.00		25.00			
17	15	1.90	2.00	110.00	100.00	<5	<5	16000.00
			7.00		150.00			
			4.00		100.00			
		2.60	1.80	70.80	69.90	<1	<1	7020.00
		1.74	1.74	32.90	31.30			8653.00
		1.70	1.60	29.00	27.00	<5	<5	8230.00
		1.74	0.18	28.60	<1			8927.00
			5.00		40.00			
		1.92	1.89	26.20	24.10			10310.00
18	17	4.00	4.00	31.00	29.00	<1	<1	11100.00
		3.00	2.83	41.20	38.10			11594.00
			7.00		80.00			
		2.40	2.45	45.80	45.30			18753.00
15	15	2.00	2.00	31.00	30.00	<1	<1	1500.00
			2.22	2.09	40.8	31.9		24300
			2.00		40.00			
			2.03	1.99	36.1	31.3		14600
			2.29	2.28	32.2	26.1		9601
17	18	2.00	2.00	24.00	24.00	<1	<1	12600.00
			3.53	3.6	46.8	45.6		12642
			3.00		40.00			
		6.66	6.35	60.10	60.40			13860.00
			3.05	2.94	41.6	33.2		11049
			6.56	6.21	107.4	101.8		12231
12.7	12.79	6.31	6.35	129.40	126.75	<1	<1	10510.00
			6.79	6.4	124.1	116.6		9269
			2.89	2.45	82.2	73.1		5752
8.1	9.77	6.26	5.80	101.00	101.50	<1	<1	3497.00

		6.19	5.99	97.90	93.90			3617.00
		10.31	10.62	138.80	119.60			6326.00
15		6.90		115.00		1.00		9780.00
		5.71	5.72	99.70	98.10			5923.00
		4.87	4.83	66.60	65.70			6341.00
18	19	5.70	5.80	52.00	59.00	<1	<1	15300.00
		6.46	-9.00	64.80	-9.00			11704.00
		7.24	6.70	67.50	62.20			12734.00
		7.69	7.36	76.00	74.90			24601.00
23	22	6.70	6.60	63.00	58.00	<1	<1	1540.00
		6.66	6.35	60.1	60.4			13860
		6.99	6.45	111.70	112.60			7786.00
9	8	5.10	4.80	115.00	111.00	<1	<1	12800.00
		5.60	5.20	125.70	112.60			7580.00
		3.32	3.55	83.90	84.20			4374.00
		3.07	2.96	68.40	62.40			3513.00
9	9	4.00	4.30	59.00	58.00	<1	<1	4700.00
		5.38	4.72	71.70	72.40			5082.00
		7.41	7.64	124.10	114.50			8084.00
18	17	6.60	5.10	87.00	81.00	<1	<1	8670.00
		10.57	9.32	135.40	128.80			8236.00
		6.46	6.33	90.60	89.20			4917.00
18	27	6.70	5.50	108.00	114.00	1.00	1.00	9560.00
		5.25	5.44	106.70	107.90			7931.00
		6.02	5.73	107.70	107.20			12629.00
		3.86	3.44	59.50	64.00			0.00
		4.00	3.55	55.10	59.80			0.00
	23	30	5.8	5.4	78	83 <1	0.001	14300
		3.93	3.52	58.00	62.20			7944.00
		4.62	4.48	85.50	88.60			9892.00
	15	23	4.9	4.8	96	92 <1	0.001	8260
		4.81	4.64	94.20	95.90			6674.00
		2.53	2.52	82.6	78.6			2989
	7	7	2.7	2.9	67	68 <1	0.001	3760
	7	7	2.9	2.7	67	68 <1	<1	3760
		2.91	2.96	79.3	72.9			3911
		5.65	3.46	150.9	95			2964
		7.32	7.11	219.1	217.3			9605
24	**24**	**0.71**	**0.7**	**222**	**223** <1	**<1**		**10100**
24	24	7.1	7	222	223 <1	<1		10100
		7.1	6.94	196.4	183.6			10188
		6.08	6.15	195	189.4			12405
22	24	**0.65**	**0.64**	187	178 <1	<1		
		5.98	6.28	167.2	163.7			17890
		6.23	6.24	171.7	167			12240
26	27	7.6	7.1	158	157 <1	<1		12800
		5.66	**5.51**	**146.3**	**145.5**			**15880**

		5.23	5.08	137.5	134.7			15280
		4.7	4.79	116.4	115.6			12130
27	26	6.2	6.9	136	134	<1	<1	16100
		5.08	5.23	137.5	134.7			15280
		4.7	4.79	116.4	115.6			12130
9	9	3.6	4	101	97	<1	<1	7490
		3.81	3.84	114.3	110.6			5508
		2.33	2.2	78.6	71.6			4686
		5.81	5.52	181.7	180.7			6329
15	17	5.7	5.8	162	166	<1	<1	6940
		5.52	5.81	181.7	180.7			6329
		6.47	6.47	231.5	223.2			9330
24	28	7.8	7.7	278	276	<1	<1	13100
		6.99	0.18	286.8	2			8165
		5.33	4.98	178.4	175			6809
17	19	5.2	5.3	206	202	<1	<1	9940
		6.92	6.96	278.3	262.4			8833
		7.69	7.27	342.1	341.8			14960
		6.78	7.42	312.5	315.7			18540
		6.61	6.77	253.1	244.6			16930
29	31	7.5	7.6	251	251	<1	<1	18100
		7.28	7.41	272.6	275			14630
		5.02	5.45	192.1	199.4			11680
9	9	4.5	2.7	109	93	<1	<1	7280
		3.92	4.32	108.8	107.3			5583
		2.17	2.09	82.7	75.5			4780
14	14	4.9	4.6	139	126	<1	<1	6040
		4.43	4.21	141.2	140.9			5433
		7.05	6.72	233.3	223.5			14270
30	30	<10	<10	280	270	<50	<50	12600
		7.33	7.42	317.6	315.9			9590
23	24	7.1	7.5	296	294	<1	<1	12000
		6.96	1.86	348.2	65.3			11850
30	26	8.00	8.20	294.00	291.00	<1	<1	13300.00
		8.91	8.46	325.8	305.6			13791
28	28	7.00	7.00	210.00	208.00	<1	<1	16600.00
		5.92	6.15	224.7	207.2			17120
		5.83	5.66	175.3	166.5			12276
10	10	3.50	3.60	106.00	108.00	<1	<1	9500.00
		3.78	3.73	104.1	99.9			7952
		2.35	2.23	85	65.8			13063
8	7	3.90	4.00	111.00	114.00	<1	<1	4820.00
		3.69	3.68	125.4	122.6			4607
		5.87	5.7	254.9	246.4			6663
22	22	7.10	7.40	247.00	248.00	<1	<1	21300.00

		6.98	6.86	305.7	302			10041
		6.59	6.77	277	277.7			10886
24	-9	6.60	-9.00	200.00	-9.00	<1	-9.00	17600.00
		6.27	6.53	235.8	230.7			15197
		6.39	5.96	216.3	210.9			14303
25	26	6.4	7.6	160	162	<1	<1	15900
		~~0.8~~	~~0.95~~	~~15.8~~	~~13.8~~			~~6157~~
		5.35	5.21	174.4	171.3			14868
28	29	6.10	6.20	127.00	129.00	<1	<1	17000.00
25	26	0.6	6.8	133	141	<1	<1	13300
		4.93	4.7	143.3	140.8			12500
		5.29	4.79	140.1	124.3			18000
5	4	2.4	2.2	72	51	<1	2	10900
		2.23	2.22	73.7	62.8			10280
		2.1	2.1	64.3	56.3	<2	<2.00	3950
		2.71	2.63	96.8	85.1			5310
		3.3	3.4	94.6	90.6	<2	<2.00	4440
13	12	4.4	4.1	113	101	<1	<1	5200
		3.4	3.31	111.6	105.9			4923
		4.4	4.6	115	110	<2	<2.00	6030
		5.81	5.8	254	255.3			9661
		6.4	6.6	224	221	<2.0	<2.0	10800
		~~6.5~~	~~6.5~~	~~225~~	~~224~~	~~<2.0~~	~~<2.0~~	~~10700~~
24	25	6.4	6.5	220	219	<1	<1	11800
		6.14	6.05	239.4	230.1			12081
		6.7	6.6	192	189	<2.0	<2.0	13400
		6.33	6.32	214.8	213.2			12802
23	25	6.1	6.2	157	165	<1	<1	13000
~~23~~	~~25~~	~~6.10~~	~~6.20~~	~~157.00~~	~~165.00~~	~~<1~~	~~<1~~	~~13000.00~~
		0	0	3.4	1.2			35

		6.3	6.4	159	152	<2.0	<2.0	18600
		0	0.21	0	1.1			182
		5.5	5.4	122	118	<2.0	<2.0	21700
		5.5	5.5	121	119	<2.0	<2.0	19100
		5.59	5.17	136.3	132.9			20555
		5.6	5.3	116	109	4.3	<2.0	19400 J
		5.76	5.5	132.9	128.7			18919
		4.5	4.9	107	110	<2.0	<2.0	11700
		4.8	4.9	110	110	<2.0	<2.0	12700
		4.02	3.9	102.2	98.4			8613
12.0	12	4.10	4.10	87.00	87.00	<1	<1	7660.00
		2.18	2.17	82.8	77.6			4945
		2.3	2.2	78	69.5	<5.0	<5.0	4150
		2.3	2.2	74	72	<5.0	<5.0	4160
		4.46	4.42	133.5	133			4725
16.0	15.0	4.60	4.60	116.0	113.00	<1	<1	5420.00
		4.8	4.4	126	118	<5.0	<5.0	5460
		5.66	5.57	183.1	184.1			7258
		5.31	5.15	184.9	185.3			7956
1.0	<1	6.00	6.20	180.0	174.00	1.00	<1	8710.00
		5.8	5.7	166	163	<0.5 U	<0.5 U	10800
		5.6	5.5	174	166	<0.5 U	<0.5 U	11500

		6.18	6.08	184.8	178.1			11886
		6.8	6.7	141	140	<0.5 U	<0.5 U	14200
		6.7	6.7	139	134	<0.5 U	<0.5 U	13300
		5.34	5.34	157.1	155.1			11285
27	27	6.70	6.80	157.0	155.00	<1	<1	12100.00
		5.44	5.4	135.2	131.1			16613
		6.41	5.64	148.1	134.1			12224
31	31	6.20	6.20	133.0	134.00	<1	<1	17500.00
		4.98	5.08	111.3	109.9			19564
		5.02	5.12	103.3	103.3			15452
30	29	5.6	5.7	101	98	<1	<1	18100
		5	5.3	90.9	89.1	<5.0	<5.0	14800
		5.04	4.88	99.1	94.5			12038
23	24	5.5	5.5	90	92	<1	<1	13100
		3.84	3.84	85.4	82.6			15403
		2.53	2.28	72.8	60.3			7679
		2	2	61.3	55.6	<5.0	<5.0	3610
		2.17	2.01	71.4	63.7			3818
		3.1	3.1	82.8	76.6	<5.0	<5.0	5230
		3.7	3.52	117.2	112.1			4082
		5.3	5.6	147	145	<5.0	<5.0	7290
		4.94	4.35	159.1	159.1			3381
24	22	6.2	5.4	174	157	<1	<1	8160
		5.7	5.9	156	148	<5.0	<5.0	8630
		7.01	6.91	150.3	147.5			12562
		7.1	7	136	139	<5.0	<5.0	11700
		5.36	5.58	136.7	139.4			11453
26	25	6.1	5.9	129	124	<1	<1	14100
		5.42	4.94	120.9	120			21334
		5.72	5.56	104.4	102.6			15342
		5.45	5.22	91.4	88.6			18116
		5.46	5.12	84.6	82			18794
		4.2	4.24	80.4	80.7			8737
		3.49	3.42	80.6	74.2			6807
8.04	7.99	2.81	2.91	61.5	61.2			6510
		2.46	2.35	58.9	50.8			6531
		5.35	5.28	86.7	89.1			9183
		5.58	5.51	90.4	93.2			11578
25.4	24.6	5.74	5.06	73.7	74.4			15100

		5.54	5.42	84.6	86.9	13840
23.1	25.4	5.95	5.34	68.9	73.4	15400
		5.23	5.05	69.5	67.4	15166
		5.43	5.42	71.9	73.6	22000
		5.25	5.17	63.7	63.9	16522
		5.25	4.97	60.6	60.7	19159
		5.01	4.87	60.8	59.6	21483
		5.54	5.45	76.7	76.4	18033
		4.97	4.95	102.7	101.8	10636
7.28	7.52	3.31	3.2	80.1	79.3	17200
		2.63	2.68	63	62.9	5856
		4.74	4.57	75.6	73.3	6889
		5.7	5.37	93.6	87.8	10173
		5.88	6.1	105.9	106.4	18440
		5.26	5.1	102.1	102.2	10988
		5.06	5.02	85.3	83	14416
		5.34	5.31	73.3	75.1	12289
		5.02	5	65.7	65.5	15718
		5.63	5.39	70.2	67.8	19971
		5.13	4.98	63.2	62.2	18300
		4.09	3.95	71.9	69.8	11284
8.9	7.32	3.67	3.83	80.4	65.4	16600
		1.95	1.76	45	35.6	3775
		2.54	2.69	52.6	43.7	5561
		4.58	4.3	79.3	75	5958
		5.63	5.34	87.9	84.2	8450
14.7	13.7	4.66	5.08	76.1	65.3	1420
		5.08	5.18	103.5	102	8779
		5.25	5.08	87.7	84.7	9640
		6.04	5.58	101.2	92.4	13228

FE_DIS	Ferrous	HG_TOT	HG_DIS	MLI_TOT	LI_DIS	MN_TOT	MN_DIS	NI_TOT	NI_DIS
5480.00		-9.000	-9.000	-9.00	-9.00	-9.00	2300.00	-9.00	-9.00
6010.00		-9.000	-9.000	-9.00	-9.00	-9.00	2340.00	-9.00	-9.00
5360.00		-9.000	-9.000	-9.00	-9.00	-9.00	1850.00	-9.00	-9.00
2700.00		-9.000	-9.000	-9.00	-9.00	2500.00	2500.00	-1.00	-1.00
3200.00		-1.000	-9.000	-9.00	-9.00	2400.00	2300.00	-1.00	-1.00
3400.00		-9.000	-9.000	-9.00	-9.00	1700.00	1700.00	-1.00	-1.00
5300.00		-9.000	-9.000	-9.00	-9.00	1400.00	1400.00	-1.00	-1.00
4200.00		-9.000	-9.000	-9.00	-9.00	1600.00	1600.00	-1.00	-1.00
4200.00		-1.000	-9.000	-9.00	-9.00	-9.00	1100.00	-9.00	-9.00
-9.00		-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00		-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
1965.00						1954.00	1479.00		
-9.00						2885.00	-9.00		
-9.00		-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00		-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
1900.00		-9.000	-9.000	-9.00	-9.00	-9.00	1500.00	-9.00	-9.00
2500.00		-1.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
5010.00		-9.000	-9.000	-9.00	-9.00	-9.00	2070.00	-9.00	-9.00
5120.00		-9.000	-9.000	-9.00	-9.00	2340.00	2210.00	-9.00	-9.00
2100.00		-9.000	-9.000	-9.00	-9.00	1200.00	1320.00	-9.00	-9.00
	3900						2000		16
3083.00						1950.00	1959.00		
7700.00		-1.000	-1.000	0.00	0.00	2500.00	2900.00	-1.00	-1.00
7112.00						3270.00	3260.00		
	6213					1773	1769		
	7701					2150	2110		
	6819					2010	2120		
	4956					1952	1916		
	4528					1998	1954		
	4407					1990			
6790.00		-1.000	-1.000	-9.00	-9.00	2440.00	2420.00	313.00	64.00
	4911					2180	2120		
	4474					2027	2005		
	3824					2102	2076		
	3784					2380	2300		
0.00						1317.00	1228.00		
4357.00						1648.00	1635.00		
0.00						854.00	814.00		
-9.00						1393.00	920.00		
4860.00		-1.000	-1.000	-9.00	-9.00	836.00	827.00	126.00	40.00
1290.00						761.00	683.00		
1329.00						979.00	94.00		
2677.00						743.00	735.00		

1265.00						512.00	432.00		
3233.00						1010.00	972.00		
2506.00						1201.00	1137.00		
2167						1209	1153		
1700.00		-1.000	-1.000	-9.00	-9.00	2420.00	2300.00	-1.00	-1.00
2647						1964	1771		
2512						1740	1686		
4135						2360	2290		
7160.00		-1.000	-1.000	-9.00	-9.00	2695.00	2500.00	-1.00	-1.00
3343						1725	1692		
4000.00		-9.000	-9.000	-9.00	-9.00	2100.00	2200.00	-9.00	-9.00
7479						2120	2051		
2802.00						1976.00	2177.00		
3138.00						4280.00	4260.00		
3015.00						3350.00	3300.00		
3152.00						2040.00	1990.00		
4400.00		-1.000	-1.000	-9.00	-9.00	2000.00	2000.00	-1.00	5.00
3670.00						1720.00	1600.00		
4125.00						1860.00	1830.00		
3863.00						1498.00	1329.00		
2425.00						774.00	712.00		
1718.00						601.00	517.00		
2200.00		-1.000	-1.000	-9.00	-9.00	860.00	840.00	-1.00	-1.00
2981.00						4720.00	4200.00		
1855.00						668.00	684.00		
2208.00						837.00	775.00		
2390.00		-9.000	-9.000	-9.00	-9.00	-9.00	830.00	-9.00	-9.00
2012.00						694.00	641.00		
2274.00						887.00	870.00		
1962.00						1434.00	1368.00		
1892.00						1203.00	1202.00		
2007.00						1739.00	1727.00		
1800.00		-1.000	-1.000			1700.00	1700.00	6.00	7.00
4474.00						1654.00	1624.00		
4500.00		-1.000	-1.000			2000.00	2000.00	-1.00	10.00
4870.00		-9.000	-9.000	-9.00	-9.00	-9.00	1810.00	-9.00	-9.00
3501.00						1918.00	1874.00		
4899.00						2119.00	2095.00		
5304.70						1558.90	1543.50	0.00	16.50
4126.00						2040.00	2110.00		
6150.00		-9.000	-9.000	-9.00	-9.00	-9.00	1690.00	-9.00	-9.00
7660.00		-9.000	-9.000	-9.00	-9.00	-9.00	1650.00	-9.00	-9.00
4243.00						1920.00	-9.00		
5377.74				17.9	30.8	1775.22	1900.07	<20	<20
7330.00		-9.000	-9.000	-9.00	-9.00	-9.00	1710.00	-9.00	-9.00
6947.00						2030.00	-9.00		
7000.00	-9.00	<.1	<.1	-9.00	-9.00	1600.00	1600.00	<10	<10

7484.02			20.2	20.0	1819.22	1810.62	<20	<20
7219.00					2470.00	1651.00		
6780.70			19.7	35.2	1889.38	1803.64	<20	<20
6680.00	-9.000	-9.000	-9.00	-9.00	-9.00	1860.00	-9.00	-9.00
4090.00					1645.00	1627.00		
6898.39			18.6	18.5	1688.95	1603.83	<20	<20
8800.00	-1.000	-1.000			1700.00	1900.00	20.00	20.00
3520.00					1527.00	1522.00		
3055.00					1433.00	1318.00		
6128.51			6.9	<6	1205.52	1345.26	<20	<20
4354.00					1415.00	1371.00		
9080.00	-9.000	-9.000	-9.00	-9.00	-9.00	1770.00	-9.00	-9.00
3542.00					1767.00	1728.00		
<30			9.6	<6	1709.19	1637.37	<20	<20
2976.00					1431.00	1398.00		
3700.00	-1.000	-1.000			1100.00	1100.00	-1.00	-1.00
2890.37			<6	<6	852.35	770.31	<20	<20
2214.00					603.00	555.00		
2538.01			<6	<6	636.32	608.13	<20	<20
2851.00					852.00	823.00		
3335.03			6.1	6.8	832.93	805.77	<20	<20
1210.00					461.00	337.00		
1191.13			6.2	<6	581.76	375.78	<20	<20
2200.00	-9.000	-9.000	-9.00	-9.00	-9.00	650.00	-9.00	-9.00
1436.00					481.00	484.00		
1436.00					481.00	484.00		
2614.67			<6	8.7	488.37	494.67	<20	<20
1715.46			<6	8.7	384.57	414.92	<20	<20
897.00					428.00	389.00		
897.00					428.00	389.00		
1080.00					458.00	447.00		
1080.00					458.00	447.00		
1584.88			<6	8.7	416.66	453.04	32.02	<20
1412.00					547.00	531.00		
1412.00					547.00	531.00		
1930.48			<6	8.7	473.49	532.34	42.98	<20
2600.00	-1.000	-1.000			750.00	760.00	-1.00	-1.00
2372.97			<6	8.7	722.85	754.61	<20	22.70
1587.00					723.00	692.00		
1587.00					723.00	692.00		
1511.03			<6	8.5	1004.34	1041.85	<20	<20
1234.00					1197.00	1165.00		
1970.00	-9.000	-9.000	-9.00	-9.00	-9.00	1330.00	-9.00	-9.00
1817.55			<6	12.9	1157.70	1230.17	36.51	<20
0.00			7.4	**0.0**	1230.84	**0.00**	<20	0.00
0.00			97.6	**0.0**	10497.91	**0.00**	103.09	0.00
0.00			247.3	**0.0**	74587.86	**0.00**	212.18	0.00

3763.39				0.0	9.7	0.00	1392.72	0.00	<20
3800.00		-1.000	-1.000			1600.00	1700.00	8.00	8.00
2631.00						1567.00	1577.00		
3872.00						1814.00	1832.00		
4244.59				<6	9.9	826.84	1062.86	<20	<20
-1.00		-9.000	-9.000	-9.00	-9.00	-9.00	1810.00	-9.00	-9.00
3234.00						1106.00	842.00		
3855.75				15.0	10.4	1058.21	1106.85	<20	<20
4900.00		-1.000	-1.000			1700.00	1700.00	10.00	8.00
4014.00						1614.00	1540.00		
4822.29				28.2	12.6	1728.15	1824.04	<20	<20
6070.00		-9.000	-9.000	-9.00	-9.00	-9.00	1820.00	-9.00	-9.00
5641.00						1697.00	1637.00		
5202.08				15.9	15.6	2015.68	1817.29	<20	<20
6000.00		-1.000	-1.000			1800.00	1800.00	11.00	10.00
4201.00						1536.00	1533.00		
6030.00		-9.000	-9.000	-9.00	-9.00	-9.00	1760.00	-9.00	-9.00
2611.00						1561.00	1470.00		
5325.92				19.3	17.4	2034.68	1891.48	<20	37.57
2517.00						1475.00	1446.00		
6600.00		-1.000	-1.000			2100.00	2100.00	9.00	11.00
6148.19				14.0	14.3	1823.10	1648.64	<20	<20
5175.00						1685.00	1635.00		
4639.00						1658.00	1683.00		
9180.00							1980.00		
-9.00						1681.00	-9.00		
5472.30				<6	7.4	1469.27	1614.49	<20	<20
3604.00						1608.00	1652.00		
3010.00						1208.00	909.00		
4459.42				28.4	7.3	2110.77	1016.52	<20	<20
4800.00		-1.000	-1.000			1100.00	1100.00	-1.00	-1.00
2920.00						908.00	1188.00		
2920						908	1188		
1665.00						352.00	330.00		
2183.00						731.00	558.00		
3260.00							670.00		
1684.00						655.00	497.00		
1698.00						427.00	421.00		
2300.00	-9.0	-1.0	-1.0	-9.0	-9.0	570.00	560.00	-1.00	-1.00
2324.00						758.00	627.00		
-9.00						790.00	-9.00		
1792.00						1135.00	1058.00		
3110.00							1360.00		
-9.00						1423.00	-9.00		
2961.00						1434.00	1462.00	BDL	BDL
3600.00	-9.0	-1.0	-1.0	-9.0	-9.0	1400.00	1500.00	9.00	11.00
2860.00						1323.00	1274.00		

4099.94				12.7	14.3	2831.23	2489.37	<20	<20
6720.00							2020.00		
2974.00						1461.00	1442.00		
6200.00		-1.000	-1.000			1800.00	1800.00	8.00	10.00
5639.32				0.0	18.3	0.00	1817.19	0.00	<20
3508.00						2150.00	2200.00		
6800.00		-1.000	-1.000			1700.00	1900.00	12.00	10.00
6800.00	-9.0	-1.0	-1.0	-9.0	-9.0	1700.00	1900.00	12.00	10.00
3657.00						1962.00	1863.00		
9890.00							2010.00		
5123.28				0.0	21.0	0.00	2455.20	0.00	<20
3644.00						1602.00	1452.00		
7400.00	-9.0	-1.0	-1.0	-9.0	-9.0	1600.00	1700.00	9.00	9.00
3577.00						1403.00	1336.00		
5000.00						1515.00	1501.00		
11200.00							1690.00		
3212.00						1318.00	1264.00		
5059.42				0.0	22.5	0.00	1436.43	0.00	<20
-9.00	-9.0	-1.0	-9.0	-9.0	-9.0	1500.00	-9.00	8.00	-9.00
3662.98				0.0	<6	0.00	701.81	0.00	<20
1860.00							410.00		
2153.68				0.0	<6	0.00	401.19	0.00	<20
1545.00						460.00	401.10	BDL	BDL
2980.00							610.00		
3096.81				0.0	<6	0.00	775.08	0.00	<20
<30					<6		2138.03		<20
2500.00		<.1	<.1			1000.00	1000.00	6.00	<5
2500.00		<.1	<.1			1000.00	1000.00	6.00	<5
2491.98					<6		1048.27		<20
4000.00		<.1	<.1			100.00	100.00	6.00	5.00
4405.00						1475.90	1397.00		
4600.00							1890.00		
4069.00						1743.90	1662.70		
5400.00		<.1	<.1			1800.00	1900.00	11.00	9.00
5043.00						1935.00	1817.60		
6360.00							1670.00		
9416.00						2006.60	1855.20		
7000.00		<.1	<.1			2000.00	2000.00	12.00	13.00
6328.00						1626.50	1630.40		
10200.00							1740.00		
8441.00						2403.80	2438.50		
14000.00		<.1	<.1			1800.00	1900.00	23.00	19.00
10510.00						1639.50	1582.30		
7100.00							2060.00		
3400.00		<.1	<.1			940.00	930.00	<50	<50
2810.00							660.00		
3200.00		<.1	<.1			1500.00	1500.00	14.00	12.00

5690.00					1650.00		
5300.00	<.1	<.1		2000.00	1800.00	15.00	13.00
9060.00					2850.00		
6800.00	<.1	<.1		1900.00	1900.00	14.00	16.00
8220.00					1650.00		
18000.00	<.1	<.1		2600.00	2600.00	2.00	21.00
7070.00					1930.00		
9400.00	0.1	<.1		1300.00	1300.00	15.00	16.00
7390.00					1340.00		
3100.00	<.1	<.1		920.00	870.00	6.00	6.00
2530.00					550.00		
2800.00	<.1	<.1		940.00	920.00	8.00	7.00
2390.00					1590.00		
5100.00	<.1	<.1		1400.00	1300.00	16.00	15.00
6910.00					1710.00		
5800.00	<.1	<.1	21	1600.00	1600.00	18.00	20.00
10600.00					1700.00		
4000.00	<.1	<.1		1900.00	1800.00	19.00	17.00
11000.00					1800.00		
12000.00	<.1	<.1		200.00	1900.00	22.00	19.00
7370.00					1690.00		
6010.00					1060.00		
5750.00	<.2	<.2		5750.00	1177.00	3.40	3.20
6382.00				1331.90	1294.40		
6040.00	<.05	<.05		1810.00	1820.00	13.00	14.00
230.00				1624.10	73.00		
7560.00					2650.00		
7823.00				2366.50	2253.40		
8910.00	<1	<1		2820.00	2660.00	10.00	12.00
7720.00				2592.60	2549.50		
8860.00					2190.00		
14864.00				1747.20	1619.00		
11200.00	<1	<1		1850.00	1760.00	10.00	12.00
17852				2492	2471.8		
11700.00					2160.00		
0				1662.4	1635		
0				1912.1	1874		
9870.00	<1	<1		1910.00	1980.00	12.00	11.00
8799				2413.2	2428.6		
13100.00					2740.00		
11804.00				2536.60	2565.50		
0				1970.1	1877.9		
8899				1748.8	1690.3		
7790.00	<0.2	<0.2		1540.00	1685.00	7.26	11.00
7080				1574.4	1486.5		
2126				584.1	551.2		
2199.00	<0.2	<0.2		1227.00	1428.00	8.16	2.25

1807.00				1440.20	1400.70		
<10				2432.40	2393.70		
	<.2			1990.00		15.00	
<10				1773.00	1804.30		
4558.00				1665.00	1664.20		
9460.00	<.2	<.2		1990.00	2160.00	12.00	13.00
-9.00				2300.50	-9.00		
7024.00				2614.00	2479.40		
11111.00				3013.90	2951.20		
1260.00	<.2	<.2		3080.00	2850.00	16.00	15.00
11804				2536.6	2565.5		
6529.00				1973.20	2004.40		
4300.00	<.2	<.2		1240.00	1210.00	9.00	6.00
3943.00				1284.10	1260.80		
2573.00				631.80	641.30		
2550.00				905.70	891.50		
3300.00	<.2	<.2		1411.00	1450.00	7.00	7.00
3864.00				2182.20	2181.80		
4420.00				3036.00	2768.10		
6540.00	<.2	<.2		3020.00	2630.00	13.00	12.00
5549.00				3139.00	2953.00		
<10				2260.20	2277.80		
7010.00	0.2	0.2		2900.00	2980.00	12.00	12.00
3836.00				2730.50	2789.70		
8853.00				3179.50	3124.90		
0.00				2485.30	2207.60		
0.00				2488.40	2172.80		
9270	<.2	<.2		3670	3420	2	16
0.00				2237.50	2013.00		
6462.00				2357.50	2358.20		
6270	<.2	<.2		2510	2410	10	11
4322.00				2270.70	2290.70		
1811				686.8	690.8		
2990	<.2	<.2		1220	1220	15	5
2990	<.2	<.2		1220	1220	5	5
2897				1143	1122.3		
2654				2855.8	1744.4		
9768				4533.6	4385.6		
9890	<.2	<.2		4520	4510	16	15
9890	<.2	<.2		4520	4510	16	15
5300				4281.6	4133.5		
5262				4063.9	3973.7		
	<.2	<.2		4200	4170	16	14
12240				4639.9	4733.7		
6473				4670.1	4723.1		
8900	<.2	<.2		4880	4870	20	17
10450				**4682.4**	**4555.3**		

11020				**4743.5**	**4666.8**		
7469				**4211**	**4043.1**		
10800	<.2	<.2		4550	4770	17	17
11020				4666.8	4743.5		
7469				4211	4043.1		
5090	<.2	<.2		1730	1600	7	7
5146				1903.3	1860.1		
2288				978.6	955.2		
2339				**3103.6**	**3049.7**		
3920	<.2	<.2		2880	2920	10	10
2339				3049.7	3103.6		
6036				4151.8	4053.1		
8040	<.2	<.2		5030	5140	19	18
19				**4961**	**116.6**		
5988				2359.4	2395.6		
6000	<.2	<.2		3190	3200	11	11
5989				4100.4	3945.7		
11240				5689	5483.5		
11210				6623	5994		
10400				5345	5326		
13400	<.2	<.2		5910	5910	18	18
9467				5976	5839		
8982				3966.4	4282.9		
4110	<.2	<.2		1810	1770	5	5
4097				1653	1687.9		
2318				880.2	847.2		
3480	<.2	<.2		2680	2380	9	10
2989				2487.6	2460.4		
4263				3213.1	3182.2		
7420	<1	<1		5440	5260	<5	<5
6588				4553.9	4259		
8230	<.2	<.2		4690	4800	17	16
3497				4796.4	1338.1		
11800.00		<.2	<.2	5840.00	5200.00	18.00	17.00
18				5994	5738		
11700.00		<.2	<.2	5470.00	5390.00	18.00	18.00
10190				5718	5007		
0				4728.7	4534.6		
5460.00		<.1	<.2	2080.00	2112.00	6.00	7.00
4997				1824.9	1828		
1793				921.6	742.7		
3540.00		<.2	<.2	1520.00	1580.00	7.00	6.00
3241				1473.4	1436.4		
3540				3151.8	3026		
15700.00		**<.2**	**<.6**	**9280.00**	**9310.00**	**14.00**	**14.00**

5654				4341.2	4312.6		
6692				4941.4	4906.5		
-9.00	<1	-9		4670.00	-9.00	16.00	-9.00
3383				5001	4960.2		
9163				5185.4	5053.1		
10400	<.2	<.2		5110	5170	16	16
3007				575.9	576.3		
10472				4987.9	5000.3		
12600.00	<.2	<.2		5540.00	5080.00	19.00	20.00
9540	<.2	<.2		5080	5100	19	20
8689				4885.9	4876		
15353				4593.3	4288		
1790	<.2	<.2		871	700	4	3
1867				815.3	737.1		
2000				809	766	2	2.2
3847				1348.4	1244.9		
3090				1810	1770	7	5.25
3280	<.2	<.2		2400	2290	9	8
3047				2309.7	2226.1		
3670				2850	2830	10	9.12
6664				4435.4	4351.4		
7750				4900	4810	16.3	15
7770				4750	4870	16.1	15.4
8110	<.2	<.2		4520	4520	17	17
2590				4929.5	4282.9		
9530				5100	4920	15.7	15.7
8721				5004.3	5024		
9970	<.2	<.2		5100	4920	17	17
9970.00	<.2	<.2		5100.00	4920.00	17.00	17.00
57				32	0		

11600			5530	5270	17.3	17.4
129			77.6	7.9		
13300			5120	5290	17.8	19.4
13200			5020	5260	17	19.3
12844			5661	5346.3		
9640			5490	5200	17.9	16.3
13628			5598.4	5349.1		
8610			3120	3040	9.7	10.3
8470			3190	2970	9	9.7
6713			2377.3	2255.6		
6020.00	<.2	<.2	2160.00	2070.00	8.00	8.00
2619			875.7	839.7		
2300			852	811	4.3	<4.0
2210			865	769 [1] J	<4.0	<4.0
2629			2683.2	2659.2		
3520.00	<.1	<.2	2850	2740.00	12.00	11.00
4300			3190	3280	10	8.6
5034			3537.5	3491.3		
4439			4399.3	4222.8		
6250.00	<.1	<.2	4280	4120.00	18.00	17.00
9010			4770	5030	14.8	16.3
8850			4780	4950	15.1	16.5

8209			4907.5	4729.1		
11700			5090	5120	17.1	16.2
11100			**5140**	**5220**	**17.1**	**16.1**
8190			4517.6	4473.9		
9110.00	<.1	<.2	4780	4560.00	17.00	17.00
9532			4854.9	4516		
10130			4936.9	4778.9		
12100.00	<.1	<.2	5410	5280.00	20.00	20.00
12865			4828.9	4522.6		
1433			4905	4504.7		
14200	<.1	<.2	5160	5390	22	21
10000			4950	4940	14.8	16.4
8157			3526.2	3329.2		
11000	<.1	<.2	4120	4220	14	16
5562			2108.5	2031.5		
2586			1066.5	982		
2320			739	731	<4.0	<4.0
2842			1044.7	926.9		
3600			1790	1740	6.4	6
2493			2399.6	2327.1		
5520			3780	3890	12.3	13
3048			3843.2	3793.6		
5850	<.1	<.2	4220	3830	17	15
7110			4490	4900	14	14.5
9552			4085.7	3971.9		
8730			4700	4620	13.4	13.7
2482			4331.1	4311.8		
9090	<.1	<.2	4710	4720	17	16
10530			4799.1	4788.5		
10646			4781.1	4762.6		
11089			4320	4291.7		
13244			4774	4737.1		
7479			2467.2	2411.6		
4931			1643.8	1623.9		
5360			1660	1620	4.75	4.87
4711			1476.5	1390.2		
5753			4304.9	4240.6		
8266			4072.5	4022.4		
11300			5070	5050	16.4	12.4

10311	4947.6	4861.2		
11400	5120	5040	15	10.4
8629	4887.6	4591		
16358	4944.3	4922.2		
13272	5313.8	4979.5		
12856	4556.3	4486		
15370	4600.9	4411.5		
14751	4907.2	4843.4		
8689	2041	2013		
4360	1510	1440		
4994	1219.6	1209.2		
4706	3843.3	3786.5		
8188	3229.9	3245.2		
9101	3708	3643.5		
8762	2898	2875.9		
9552	3640.6	3622.5		
10461	4307.2	4300.2		
9817	4358.6	4320.3		
13757	4880.2	4742.3		
11749	4674	4640.1		
8887	2808.2	2667.1		
4590	1770	1740	3.52	3.12
1970	693	664.6		
3937	1333.8	1306		
3031	2753.5	2701.9		
4519	4200.8	3874		
1420	710	710		5.88
5713	2836	2810.4		
5434	3926.3	3946		
12328	4999.8	4510.8		

PB_TOT	PB_DIS	SE_TOT	SE_DIS	SR_TOT	SR_DIS	TL_TOT	TL_DIS	V_TOT	V_DIS
-9.00	22.00	-9.00	-9.00	-9.000	2960.000	-9.000	-9.000	-9.000	-9.000
-9.00	20.00	-9.00	-9.00	-9.000	2900.000	-9.000	-9.000	-9.000	-9.000
-9.00	20.00	-9.00	-9.00	-9.000	1320.000	-9.000	-9.000	-9.000	-9.000
23.00	20.00	-1.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
47.00	27.00	-1.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
61.00	31.00	-1.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
21.00	15.00	-1.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
33.00	17.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
14.00	11.00	-9.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
15.00	6.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
14.00	<5	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
1000.00	13.90								
<1	-9.00								
12.00	5.50	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
12.00	7.30	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
15.00	20.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
13.00	10.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.00	11.00	-9.00	<5	-9.000	6800.000	-9.000	-9.000	-9.000	-9.000
20.00	20.00	-9.00	<5	-9.000	5700.000	-9.000	-9.000	-9.000	-9.000
16.00	20.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
		12							
8.70	6.50								
13.00	8.70	-1.00	-1.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
12.50	3.10								
	12	8.3							
	9.9	2.6							
	34.9	6.7							
	9.5	6.5							
	12.2	<3							
<3	<3								
18.00	14.00	-1.00	-1.00	-9.000	-9.000	2.000	0.200	-1.000	-1.000
	14	12.4							
	7.1	5.3							
	8.8	6.3							
	7.6	5.5							
0.00	-9.00								
14.70	10.50								
51.50	18.00								
0.00	-9.00								
79.00	13.00	-1.00	-1.00	-9.000	-9.000	0.700	0.700	-1.000	-1.000
20.80	8.60								
14.40	8.90								
15.70	15.00								

23.80	11.70								
13.40	10.50								
14.20	2.50								
7.1	5.5								
31.00	23.00	-1.00	-1.00	-9.000	-9.000	0.670	0.650	-1.000	-1.000
47.8	6.1								
6.4	5.9								
1.2	2.9								
17.30	14.60	-1.00	-1.00	-9.000	-9.000	0.660	0.420	-1.000	-1.000
6	1.6								
21.00	17.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
8.9	1.2								
16.30	12.40								
13.70	4.40								
11.50	6.70								
10.60	7.80								
39.00	22.00	-1.00	-1.00	-9.000	-9.000	-1.000	-1.000	-1.000	-1.000
29.80	22.10								
12.70	11.70								
30.40	22.50								
47.00	17.30								
35.80	9.30								
35.00	14.00	-1.00	-1.00	-9.000	-9.000	-1.000	-1.000	-1.000	-1.000
19.10	15.60								
11.80	8.90								
9.40	1.50								
-9.00	10.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
8.20	3.90								
9.30	5.20								
10.50	8.90								
12.80	12.70								
11.20	9.50								
20.00	20.00	-1.00	-1.00			-1.000	100.000	-1.000	-1.000
9.40	10.30								
23.00	20.00	-1.00	-1.00			100.000	-1.000	5.000	-1.000
-9.00	30.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
7.30	5.80								
10.80	8.00								
12.40	10.30	0.00	0.00					0.000	0.000
5.10	7.30								
-9.00	12.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
-9.00	16.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
9.20	8.00								
<30	<30	0.00	0.00	1897.4	1992.4	0.0	0.0	<4	<4
-9.00	11.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
9.00	5.20								
19.00	15.00	<5	<5	-9.000	-9.000	<5	<5	<5	<5

<30	<30	0.00	0.00	2140.7	2132.1	0.0	0.0	<4	<4
10.20	7.10								
<30	<30	0.00	0.00	2212.9	2127.6	0.0	0.0	5.0	<4
-9.00	19.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
7.60	7.50								
<30	<30	0.00	0.00	2177.9	2046.9	0.0	0.0	<4	<4
17.00	15.00	-1.00	-1.00			-1.000	-1.000	6.000	6.000
10.00	9.40								
13.30	8.20								
<30	<30	0.00	0.00	1023.6	1280.5	0.0	0.0	<4	<4
9.30	7.30								
-9.00	<5	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
13.40	11.30								
<30	<30	0.00	0.00	956.9	908.6	0.0	0.0	<4	<4
13.40	8.40								
30.00	14.00	-1.00	-1.00			-1.000	-1.000	-1.000	-1.000
<30	<30	0.00	0.00	348.2	322.7	0.0	0.0	<4	<4
13.00	8.20								
<30	<30	0.00	0.00	319.0	311.3	0.0	0.0	<4	<4
11.20	8.50								
<30	<30	0.00	0.00	533.8	502.9	0.0	0.0	<4	<4
32.80	7.40								
87.40	50.17	0.00	0.00	226.7	210.0	0.0	0.0	5.0	<4
-9.00	18.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
16.50	12.80								
16.50	12.80								
<30	<30	0.00	0.00	299.4	311.6	0.0	0.0	<4	<4
<30	<30	0.00	0.00	255.3	284.8	0.0	0.0	<4	<4
22.70	6.30								
22.70	6.30								
16.00	7.40								
16.00	7.40								
<30	<30	0.00	0.00	290.4	330.7	0.0	0.0	6.1	<4
13.70	4.50								
13.70	4.50								
<30	<30	0.00	0.00	354.6	413.5	0.0	0.0	10.4	<4
15.00	9.00	-1.00	-1.00			-1.000	-1.000	-1.000	-1.000
<30	<30	0.00	0.00	630.7	662.0	0.0	0.0	<4	<4
9.20	4.00								
9.20	4.00								
<30	<30	0.00	0.00	850.5	822.9	0.0	0.0	<4	<4
9.30	5.60	-9.00	-9.00						
-9.00	6.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
<30	<30	0.00	0.00	1036.8	1047.0	0.0	0.0	<4	<4
<30	**0.00**	**0.00**	**0.00**	1252.2	**0.0**	**0.0**	**0.0**	<4	**0.0**
6577.99	**0.00**	**0.00**	**0.00**	1360.1	**0.0**	**0.0**	**0.0**	253.5	**0.0**
984.73	**0.00**	**0.00**	**0.00**	1880.0	**0.0**	**0.0**	**0.0**	331.3	**0.0**

0.00	<30	0.00	0.00	0.0	1489.4	0.0	0.0	0.0	<4
21.00	16.00	-1.00	-1.00			-1.000	-1.000	-1.000	-1.000
9.50	6.60	-9.00	-9.00						
12.40	7.20	-9.00	-9.00						
<30	<30	0.00	0.00	744.3	956.4	0.0	0.0	<4	<4
-9.00	10.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
8.40	5.10	-9.00	-9.00						
48.56	<30	0.00	0.00	1019.0	1140.4	0.0	0.0	6.1	<4
16.00	12.00	-1.00	-1.00			-1.000	-1.000	5.000	-1.000
9.80	6.10	-9.00	-9.00						
<30	<30	0.00	0.00	1561.8	1852.8	0.0	0.0	5.5	<4
-9.00	19.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
11.40	8.20	-9.00	-9.00						
<30	<30	0.00	0.00	2210.9	1975.3	0.0	0.0	<4	<4
24.00	16.00	-1.00	-1.00			-1.000	-1.000	5.000	5.000
11.10	8.00	-9.00	-9.00						
-9.00	14.00	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
9.00	5.50	-9.00	-9.00						
<30	<30	0.00	0.00	2276.6	2132.7	0.0	0.0	<4	4.5
24.80	9.50	-9.00	-9.00						
17.00	14.00	-1.00	-1.00			-1.000	-1.000	5.000	-1.000
<30	<30	0.00	0.00	2251.9	2145.8	0.0	0.0	<4	<4
11.30	7.90	-9.00	-9.00						
11.80	9.90	-9.00	-9.00						
	11.00								
7.30	-9.00	-9.00	-9.00						
<30	<30	0.00	0.00	1164.7	1364.5	0.0	0.0	<4	<4
21.00	10.50	-9.00	-9.00						
22.80	16.20	-9.00	-9.00						
<30	<30	0.00	0.00	1408.8	740.5	0.0	0.0	<4	<4
19.00	13.00	-1.00	-1.00			-1.000	-1.000	-1.000	-1.000
42.20	13.60	-9.00	-9.00						
42.2	13.6								
29.50	3.60	-9.00	-9.00						
12.90	5.30	-9.00	-9.00						
	7.00								
12.60	4.10	-9.00	-9.00						
13.20	1.60	-9.00	-9.00						
10.00	4.00	-1.00	-1.00	-9.0	-9.0	-1.0	-1.0	-1.0	-1.0
9.50	2.70	-9.00	-9.00						
8.30	-9.00	-9.00	-9.00						
16.10	7.20	-9.00	-9.00						
	9.00								
21.70	-9.00	-9.00	-9.00						
15.00	11.70							BDL	BDL
16.00	14.00	-1.00	-1.00	-9.0	-9.0	-1.0	-1.0	8.0	-1.0
10.40	6.40	-9.00	-9.00						

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
<30	<30	0.00	0.00	1964.6	1763.4	0.0	0.0	<4	<4
	15.00								
6.60	7.10	-9.00	-9.00						
14.00	12.00	-1.00	-1.00			-1.000	-1.000	-1.000	-1.000
0.00	<30	0.00	0.00	0.0	1965.0	0.0	0.0	0.0	<4
10.80	7.20	-9.00	-9.00						
14.00	11.00	-1.00	-1.00			100.000	-1.000	5.000	-1.000
14.00	11.00	-1.00	-1.00	-9.0	-9.0	100.0	-1.0	5.0	-1.0
10.90	7.40	-9.00	-9.00						
	<5								
0.00	<30	0.00	0.00	0.0	2003.5	0.0	0.0	0.0	<4
30.70	8.40	-9.00	-9.00						
15.00	12.00	-2.00	-2.00	-9.0	-9.0	100.0	-1.0	7.0	-1.0
13.90	7.10	-9.00	-9.00						
11.50	7.30	-9.00	-9.00						
	<5								
12.80	9.90	-9.00	-9.00						
0.00	<30	0.00	0.00	0.0	1416.0	0.0	0.0	0.0	<4
12.00	-9.00	-1.00	-9.00	-9.0	-9.0	-1.0	-9.0	-1.0	-9.0
0.00	<30	0.00	0.00	0.0	395.0	0.0	0.0	0.0	<4
	6.00								
0.00	<30	0.00	0.00	0.0	296	0.0	0.0	0.0	<4
23.90	2.40							BDL	BDL
	12.00								
0.00	<30	0.00	0.00	0.0	584	0.0	0.0	0.0	<4
	<30				667.805				<4
140.00	15.00	<5	<5			<5	<5	12	<5
140.00	15.00	<5	<5			<5	<5	12	<5
	<30				847.703				<4
34.00	12.00	<5	<5			<1	<1	<5	<5
30.10	28.00	2.80	<2						
	12.00	12.00							
13.40	14.10	5.80	2.20						
14.00	10.00	<5	<5			<1	<1	<5	<5
13.50	13.40	5.90	2.90						
	<5	<5							
16.10	7.00	<2	<2						
13.00	1.00	<5	<5			<1	<1	<5	<5
13.10	10.10	<2	<2						
	6.00	6.00							
26.20	7.70	<2	<2						
13.00	8.00	<5	<5			<1	<1	<5	<5
12.50	9.00	<2	<2						
	8.00	8.00							
3.00	36.00	<5	<5			<1	<1	<5	<5
	<5	<5							
14.00	12.00	<5	<5			<1	<1	<5	<5

	10.00	10.00						
23.00	27.00	<5	<5		<1	<1	15	<5
	8.00	8.00						
11.00	9.00	<5	<5		<1	<1	<5	<5
	6.00	6.00						
2.00	12.00	<5	<5		<1	<1	<5	<5
	6.00	6.00						
9.00	7.00	<5	<5		<1	<1	<50	<50
	7.00	7.00						
57.00	1.00	<5	<5		<1	<1	6	<5
	9.00	9.00						
8.00	4.00	<5	<5		<1	<1	<5	<5
	14.00	14.00						
1.00	7.10	<3	<3		2.5	<1	<3	<3
	<5	<5						
9.00	9.70	<3	<3		<1	<1	<3	<3
	8.00	8.00						
12.00	8.10	<3	<3		0.0019	<.001	<3	<3
	6.00	6.00						
12.00	8.40	<3	<3		<1	<1	<50	<50
	<5	<5						
	<5	<5						
1.10	<1	<1	<1				<25	
4.90	5.70	5.80	2.10					
9.00	8.00	<2	<2					
8.10	<3	2.10	2.50					
	<5	<5						
8.00	8.10	3.70	<2					
11.00	9.00	1.00	<1		<1	<1	3	<1
9.00	5.50	<2	<2					
	9.00	9.00						
7.20	4.10	5.80	<2					
8.00	5.00	<1	<1		<1	<1	4	<1
	13.1	3.5	5.4	<3				
	<5	<5						
	8.1	<3	<3	<3				
	21.3	4.6	2.8	2.1				
8.00	7.00	<1	<1		<1	<1	3	<1
	12.9	8.6	5.3	3.2				
	9.00	9.00						
15.40	14.50	4.50	4.80					
	33.5	12	3	<3				
	14.9	11.7	6.2	2.7				
16.34	14.80	<2.5	<2.5		<1	<1	1.68	<1
	16.2	15.6	4.2	4.2				
	28.3	10.5	<3	2.8				
14.73	11.28	0.67	0.64		<1	<1	2.03	<1

16.30	10.70	2.00	2.10				
44.80	8.00	4.00	4.10				
30.00		0.80		<1		2	
15.60	13.50	2.80	<2				
10.10	10.10	<2	<2				
17.00	15.00	<.5	<.5	<1	<1	1	<1
16.20	-9.00	<2	-9.00				
28.80	17.70	9.20	4.00				
26.30	24.00	7.40	4.90				
18.00	16.00	<.5	<.5	<1	<1	3	<1
15.4	14.5	4.5	4.8				
18.90	16.50	7.50	4.10				
31.00	20.00	1.50	<.5	<1	<1	2	<1
26.10	26.30	3.10	<2				
22.20	12.90	<2	7.90				
11.70	8.10	2.70	3.20				
8.00	6.00	<1	<1	<1	<1	<1	<1
9.70	10.90	16.30	<2				
24.90	17.00	16.20	16.50				
16.00	14.00	2.20	<.6	<1	<1	<100	<1
12.50	23.00	24.40	7.40				
16.50	16.60	6.50	<2				
15.00	14.00	1.10	1.30	1	1	1	1
11.00	10.80	7.90	2.20				
17.20	12.60	2.70	<2				
9.20	8.70	10.40	6.00				
7.80	5.90	9.50	8.20				
20	18	1.3	1.1	<1	<1	<100	<1
9.30	7.40	9.30	9.30				
16.50	14.60	4.00	2.70				
16	15	0.5	1.4	<1	<1	<100	<1
13.30	13.10	5.10	<2				
10.8	3.1	5.6	0				
10	6<.5	<.5		<1	<1	<100	<1
10	6<.5	<.5				<100	<1
8.8<3		<2	<2				
6.2	11.1	4.9	3.3				
14.1	13.2	6.4	3.4				
19	18	0.8	0.7	<1	<1	100	2
19	18	0.8	0.7			<100	2
35.2	16.1	9.3	7.6				
14.7	12.9	3.8	0				
18	15	0.7	0.8	<1	<1	<100	<1
16.7	16.2	6.5	3.6				
13.9	12.2	4.2	0				
20	17	1.7	1.2			<100	<1
14.9	**14.1**	**6.7**	**3.7**				

~~18.9~~	~~17.6~~	~~4.8~~	~~0~~				
~~20.6~~	~~14.3~~	~~0~~	~~0~~				
20	17	1.7	0.5			<100	<1
18.9	17.6	0	4.8				
20.6	14.3	0	0				
13	9	1	0.6			<100	<1
11.7	8.5	0	0				
15.8	3.3	6	0				
~~15.1~~	~~14.3~~	~~0~~	~~0~~				
15	14	0.6<.5				<100	<1
15.1	14.3						
25.7	17.2	0	0				
15	14<.5		0.6			<100	<1
~~17.3~~	~~0~~	~~0~~	~~0~~				
18.9	15.8	0	0				
13	11	1.2	0.7			<100	<1
16.6	18	0	0				
21.3	16.2	0	0				
16.5	19.2	0	0				
14.6	14.4	0	0				
17	16	0.7<30				<100	<1
14.7	15.8	30.5	0				
22	11<.5	<.5				<100	<1
21	17.4	26.9	0				
34.8	16.5	0	0				
11	8<.5		0.5			<100	<1
13.1	12	0	0				
52.8	25	18	0				
<5	<5	<1	<1			<100	<100
28.4	26.5	0	0				
15	13	0.5	8			<100	<1
16.5<3		0	0				
17.00	15.00	0.60	0.80	<1	<1	<1	<1
20.4	14.4	15.7	0				
14.00	13.00	<.5	<.5	<1	<1	<100	<1
16.9	18.3	26.5	15.6				
19.7	15.7	0	0				
15.00	10.00	<.5	<.5	<1	<1	<100	<1
19.9	14.5	0	0				
88.3	11.8	0	0				
11.00	8.00	<.5	<.5	<1	<1	<100	<1
17.7	15.1	0	0				
29.4	27.1	0	0				
~~19.00~~	~~18.00~~	~~<.5~~	~~<.6~~	~~<1~~	~~<1~~	~~<100~~	~~<1~~

34.7	33.4	0	0					
36.4	34.5	0	0					
21.00	-9.00	<.5	-9.00		<1	-9	3	-9
41.1	37.4	0	0					
34.5	32.5	0	0					
16	15	1.3	<.5		<1	<1	<100	<1
6.5	3.6	0	0					
32.9	30.1	0	0					
13.00	15.00	<.5	<.5		<1	<1	<100	<1
16	15	1.5	0.6		<1	<1	<100	<1
30.8	31	0	0					
23	21.4	0	0					
56	4	<.8	<.5		<1	<1	<100	<1
64	11.3	0	0					
18	4.2	<1.0	<1.0					
23.8	16.5	0	0					
11.1	9.6	<1.0	<1.0					
11	8	0.9	<.5		<1	<1	<100	<1
11.4	9	0	0					
14	13	<1.0	<1.0					
16.6	15.9	0	0					
15.4	16.8	<1.0	<1.0					
15.2	16.6	<1.0	<1.0					
21	18	<.5	<.5		<1	<1	<100	<1
28.7	22.3	0	0					
17.3	14.5	<1.0	<1.0					
21	18.2	0	0					
14	13	<.5	0.8		<1	<1	<100	<1
14.00	13.00	<.5	0.80		<1	<1	<100	<1
0	0	0	0					

18.6	16.2	<1.0	<1.0				
0	0	0	0				
19	13.2	<1.0	<1.0				
16.8	13.1	<1.0	<1.0				
18.7	14.7	0	0				
17	14.2	1.3	<1.0				
18.6	15.7	0	0				
18.7	14.3	<1.0	<1.0				
19.7	13.9	<1.0	<1.0				
15.5	12.3	0	0				
13.00	12.00	<.7	<.5	<1	<1	<100	<1
27.5	9.6	0	0				
24.1	6.2	<1.0	<1.0				
23.7	8	<1.0	<1.0				
31	29.1	0	0				
18.00	17.00	<.6	<.5	<1	<1	<100	<1
19.6	17.4	<1.0	<1.0				
19.1	18.3	0	0				
19.7	18.5	0	0				
22.00	20.00	<.5	<.5	<1	<1	<100	<1
18	16.8	<0.2 U	<0.2 U				
18.2	16.3	<0.2 U	<0.2 U				

34.9	22	0	0						
17.4	16.9	<0.2 U	<0.2 U						
17.2	17.1	<0.2 U	<0.2 U						
17.9	17.2	0	0						
20.00	19.00	<.5	<.5			<1	<1	<100	<1
21.1	17.2	0	0						
18.9	19.2	<5	<5						
20.00	19.00	1.60	1.10			<1	<1	<100	<1
18	15.6	<5	<5						
16.3	14.3	<5	<5						
16	15	1	0.5			<1	<1	<100	<1
17.8	15.1	<1.0	<1.0						
17.1	13.1	<5	<5						
15	13	<.5	<.5			<1	<1	<100	<1
23.9	12.1	<5	<5						
29.9	6.9	<5	<5						
22.1	9	<1.0	<1.0						
13.2	8	<5	<5						
14.8	8.5	<1.0	<1.0						
16.8	14	<5	<5						
20	19.2	<1.0	<1.0						
19.3	17	<5	<5						
21	18	<.5	<.5			<1	<1	<100	<1
21	21.4	<1.0	<1.0						
19.4	17	<5	<5						
20.5	18.7	<1.0	<1.0						
19.9	15.4	<5	<5						
20	16	<.5	<.5			<1	<1	<100	<1
19.6	16.1	<5	<5						
20.3	18.1	0	0						
23.2	19	0	0						
20.2	18.7	0	0						
14.3	13.4	0	0						
12.9	11	0	0						
11.9	8.04			773	774				
9.4	5.2	0	0						
15.8	14.8	0	0						
16.2	15.6	0	0						
13.5	11.2		3.42	2320	2270				

14.9	14	0	0			
12.8	10.5		3.93	2360	2260	16.6
15.6	13.9	0	0			
17.8	16.5	0	0			
16.6	15.3	0	0			
16.4	13.8	0	0			
15.7	14.2	0	0			
14.6	13.9	0	0			
17.7	14.2	0	0			
30.3	13.1			538	514	
9.7	7	0	0			
17.4	16.9	0	0			
19.9	14.5	0	0			
46.1	22.7	0	0			
14.5	10.5	0	0			
12.3	10.6	0	0			
14.6	13.4	0	0			
12.8	10.8	0	0			
14.8	12.5	0	0			
14	11.6	0	0			
26.5	24.2	0	0			
24.5	6.85			497	486	
22.8	8.7	0	0			
15.8	12.8	0	0			
33	26.1	0	0			
16.5	13.4	0	0			
13.3	14.2			287	287	
12.1	10.3	0	0			
24.5	21.1	0	0			
29.1	31.9	0	0			

ZN_TOT	ZN_DIS	DIS_OXY_M	DO SAT. %	TSS_MG	TDS_MG	T_PHOS_M	P_DIS_MG	PO4_DIS_M	SI_TOT_M
-9.00	860.00	-9.00		8.00	1080.00	-9.000	-9.000	-9.000	-9.00
-9.00	760.00	-9.00		20.00	1020.00	-9.000	-9.000	-9.000	-9.00
-9.00	1570.00	-9.00		20.00	496.00	-9.000	-9.000	-9.000	-9.00
1100.00	1000.00	-9.00		-9.00	-9.00	0.040	-9.000	-9.000	27.00
1000.00	1000.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
1000.00	980.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
970.00	930.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
950.00	950.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
720.00	720.00	-9.00		15.00	-9.00	-1.000	-9.000	-9.000	12.00
790.00	790.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
810.00	790.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
808.00	725.00	-9.00							
1070.00	-9.00	-9.00							
910.00	910.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
1000.00	1000.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
870.00	820.00	-9.00		10.00	-9.00	-9.000	-9.000	-9.000	-9.00
840.00	790.00	-9.00		16.00	-9.00	-9.000	-9.000	-9.000	-9.00
-9.00	720.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
790.00	810.00	-9.00		20.00	1000.00	-9.000	-9.000	-9.000	-9.00
890.00	750.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
	835				856				
1082.00	1077.00	9.00							
740.00	860.00	-9.00		-9.00	1114.00	-9.000	-9.000	-9.000	-9.00
999.00	1160.00	8.00							
935	892	8							
840	910	11							
1140	116								
1241	1143	7							
1418	1407	7							
1570	1582	7							
1510.00	1500.00	-9.00		-9.00	766.00	-9.000	-9.000	-9.000	-9.00
1660	1620	7							
1331	1397	6							
1420	1421	8							
1310	1320	10							
1178.00	1139.00	9.00							
1416.00	1444.00	8.00							
904.00	917.00	6.00							
909.00	838.00	7.00							
600.00	525.00	-9.00		-9.00	120.00	-9.000	-9.000	-9.000	-9.00
630.00	635.00	6.00							
659.00	0.00	5.00							
862.00	832.00	0.00							

584.00	554.00	7.00							
1079.00	1051.00	7.00							
681.00	673.00	0.00							
801	851	9							
1110.00	1060.00	-9.00		-9.00	786.00	-9.000	-9.000	-9.000	-9.00
918	895	8							
884	873	8							
865	828	9							
690.00	620.00	-9.00		-9.00	1110.00	-1.000	-9.000	-9.000	25.00
814	797	10							
730.00	860.00	-9.00		-9.00	1100.00	0.120	-9.000	-9.000	-9.00
1098	738	7							
806.00	814.00	6.00							
1021.00	982.00	12.00							
1067.00	842.00	6.00							
849.00	821.00	8.00							
1100.00	1200.00	-9.00		-9.00	510.00	-9.000	-9.000	-9.000	9.40
1192.00	1120.00	5.00							
1019.00	981.00	8.00							
1189.00	1096.00	6.00							
749.00	728.00	5.00							
633.00	595.00	-9.00							
580.00	620.00	-9.00		-9.00	170.00	-9.000	-9.000	-9.000	4.90
1210.00	1215.00	7.00							
602.00	531.00	8.00							
757.00	772.00	7.00							
-9.00	680.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
631.00	653.00	11.00							
709.00	709.00	5.00							
814.00	804.00	8.00							
877.00	-9.00	8.00							
872.00	883.00	4.00							
940.00	970.00				640.00		-9.000		9.80
690.00	-9.00	9.00							
770.00	780.00				780.00		-1.000		14.00
-9.00	700.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
641.00	645.00	5.00							
780.00	757.00	6.00							
677.40	653.50								16.70
719.00	704.00	9.00							
-9.00	760.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
-9.00	750.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
818.00	763.00	9.00							
783.56	809.90	8.8							
-9.00	760.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
923.00	854.00	8.00							
660.00	650.00	-9.00	-9.00	-9.00	900.00				14.00

711.72	679.11	7.0							
717.00	728.00	1.00							
726.78	701.77	10.9							
-9.00	780.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
694.00	-9.00	10.00							
734.08	661.95	8.5							
720.00	880.00				940.00				14.00
757.00	-9.00	9.00							
719.00	747.00	8.00							
737.58	784.66	8.6							
850.00	779.00	10.00							
-9.00	910.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
803.00	793.00	8.00							
824.79	791.60	8.3							
810.00	817.00	5.00							
930.00	980.00				240.00				6.90
967.22	902.52	8.1							
745.00	704.00	9.00							
740.85	712.85	8.8							
863.00	857.00	10.00							
874.53	834.84	8.4							
903.00	558.00	8.00							
576.47	527.34	9.5							
-9.00	770.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
639.00	664.00	8.0							
639.00	664.00	8.0							
613.45	626.83	8.0							
467.76	533.97	8.4							
521.00	536.00	7.0							
521.00	536.00	7.0							
565.00	560.00	8.0							
565.00	560.00	8.0							
494.56	562.84	8.7							
629.00	565.00	4.0							
629.00	565.00	4.0							
490.91	553.30	13.9							
650.00	680.00				270.00				6.20
607.91	617.28	9.0							
600.00	605.00	8.0							
600.00	605.00	8.0							
629.53	672.38	7.5							
728.00	724.00	6.0	-9						
-9.00	766.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
687.03	707.41	8.8							
693.32	**0.00**	8.3							
1357.73	**0.00**								
4890.15	**0.00**	7.9							

0.00	621.26								
620.00	680.00				630.00				11.00
661.00	659.00	-9.0	-9						
674.00	669.00	6.0	-9						
619.86	736.90								
-9.00	740.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
824.00	550.00	10.0	-9						
702.04	687.07	9.4							
670.00	700.00				710.00				12.00
696.00	687.00	12.0	-9						
621.26	644.31								
-9.00	735.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
671.00	671.00	9.0	-9						
706.31	601.39								
750.00	710.00				920.00				14.00
613.00	624.00	9.0	-9						
-9.00	680.00	-9.00		-9.00	-9.00	-9.000	-9.000	-9.000	-9.00
639.00	618.00	8.0	-9						
660.02	621.69	8.9							
705.00	645.00	10.0	-9						
690.00	730.00				1200.00				15.00
715.01	641.31								
728.00	728.00	8.0	-9						
776.00	737.00	8.0	-9						
	830.00								
782.00	-9.00	8.0	-9						
634.42	665.40	8.9							
713.00	710.00	7.0	-9						
1078.00	729.00	9.0	-9						
1401.76	812.07	8.6							
800.00	860.00				390.00				8.10
1003.00	705.00	9.0	-9						
1003	705	9							
631.00	495.00	-9.0	-9						
817.00	556.00	-9.0	-9						
	620.00								
777.00	537.00	-9.0	-9						
544.00	518.00	8.0	-9						
520.00	540.00	-9.00	-9.00	-9.00	230.00	-9.00	-9.00	-9.00	4.80
577.00	587.00	8.0	-9						
667.00	-9.00	8.0	-9						
815.00	679.00	10.0	-9						
	680.00								
704.00	-9.00	7.0	-9						
601.00	637.00								
610.00	650.00	-9.00	-9.00	-9.00	890.00	-9.00	-9.00	-9.00	-9.00
646.00	664.00	8.0	-9						

605.22	637.73	6.9							
	680.00								
711.00	673.00	7.0	-9						
800.00	900.00				770.00				14.00
0.00	730.65								
781.00	760.00	8.0	-9						
710.00	800.00				910.00				14.00
710.00	800.00	-9.00	-9.00	-9.00	910.00	-9.00	-9.00	-9.00	14.00
716.00	709.00	6.0	-9						
	740.00								
0.00	671.13	9.6	9.7						
671.00	639.00	8.0	-9						
750.00	840.00	-9.00	-9.00	-9.00	950.00	-9.00	-9.00	-9.00	13.00
705.00	680.00	8.0	-9						
1677.00	824.00	10.0	-9						
	830.00								
846.00	805.00	8.0	-9						
0.00	743.98	10.2							
810.00	-9.00	-9.00	-9.00	-9.00	790.00	-9.00	-9.00	-9.00	11.00
0.00	704.36	8.0	95.9						
	620.00								
0.00	563.86	8.3							
584.90	576.70								
	740.00								
0.00	813.08	7.9							
	631.93	7.0							
880.00	1000.00				360				
880.00	1000.00				360				
	1055.71								
1000.00	1100.00				410				
1700.80	1521.40	7.0	-9						
	1960.00								
1685.30	1582.40	8.0	-9						
1300.00	1500.00				900				
1833.80	1599.10	1.4	-9						
	754.00								
601.60	566.30	8.0	-9						
720.00	790.00				1000				15
666.50	607.60	8.0	-9						
	769.00								
1301.60	1240.50	7.0	-9						
690.00	780.00				880				16
654.80	613.90	7.0	-9						
	708.00								
1000.00	1100.00				210				9
	685.00								
1100.00	1200.00				650				11

	840.00					
1200.00	1100.00			700		19
	1450.00					
1200.00	1300.00			880		12
	772.00					
1200.00	1300.00			1000		14
	676.00					
540.00	610.00			1100		16
	746.00					
1000.00	1100.00			230		8.8
	620.00					
730.00	780.00			420		7.3
	1140.00					
650.00	730.00	9.65	98.70%	710		14
	692.00					
670.00	730.00	6.31	78%	870		16
	718.00					
5.00	710.00			980		19
	740.00					
710.00	700.00			950		19
	1690.00					
	1000.00					
726.00	724.00			412		24.3
565.60	558.40	7.0	60			
542.00	550.00			733	<2	26.6
624.80	~~17.20~~	-9.0	-9			
	938.00					
634.70	604.20	-9.0	-9			
1000.00	970.00			762		30.4
720.20	708.50	-9.0	-9			
	1110.00					
836.30	827.10	-9.0	-9			
684.00	685.00			804		26.4
736.6	730.8					
	842.00					
719.3	710.5					
699.3	696.1					
711.00	724.00			836		26.4
1032.8	1021.6					
	834.00					
1421.80	1398.50	-9.0	-9			
823.4	794.7					
1353	1310.8					
1618.00	1514.00	7.77	94	421.52		22.16
1397	1325.3	7.7				
588.7	591.6					
1186.00	1329.00	6.32	94	401.15		5.74

1155.50	1137.80	6.3	94			
1856.00	1721.20	-9.0	-9			
1530.00		6.59	86	557		
1364.60	1319.00	6.6	-9			
1043.60	1033.40	-9.0	-9			
1180.00	1340.00			763		32.3
1407.90	-9.00	-9.0	-9			
1581.90	1571.50	-9.0	-9			
1816.20	1796.10	-9.0	-9			
1760.00	1630.00			903		35.2
1421.8	1398.5					
1484.80	1439.80	-9.0	-9			
1310.00	1240.00	6	78	228		14.4
1353.70	969.70	6.0	78			
657.50	668.60	-9.0	-9			
679.70	672.70	-9.0	-9			
928.00	957.00	5.97	81	405		16.6
1033.70	984.70	6.0	81			
1723.60	1724.30	-9.0	-9			
2090.00	1950.00			757		32.1
2361.60	2231.10	-9.0	-9			
1371.50	1363.20		-9			
1720.00	1780.00			626		30.5
1736.30	1707.10		-9			
1851.90	1817.70		-9			
1387.10	1245.10	-9	-9			
1341.50	1193.10	-9	-9			
1890	2020			846		
1292.70	1146.10	-9	-9			
1534.50	1519.10	-9	-9			
1760	1530			551		
1569.80	1589.60	-9	-9			
628.6	635.8					
707	801			218		
707	801				218	
770.1	755.2					
1617.2	1001.3					
2422.9	2356.9					
2410	**2500**				**774**	
2410	2500				774	
2321.5	2239					
2193	2116.3					
2280	2350				715	
2408	2393.6					
2551.2	2349.8					
2400	2510				846	
2384.7	**2298.6**					

~~2235.9~~	~~2214.6~~		
~~2261~~	~~2029.6~~		
2360	2530		864
2214.6	2235.9		
2261	2029.6		
1280	1160		312
1310.6	1293.9		
707.6	702.9		
~~1808.1~~	~~1698~~		
1730	1740		540
1698	1808.1		
2333.7	2264.5		
2680	2680		748
~~2860.5~~	~~492.9~~		
1495.5	1467.6		
1900	1900		514
2208.2	2160.7		
3052.1	2888.8		
3001.3	3060.1		
3799.6	2789.1		
2970	2980		922
2689.7	2673.2		
~~14.3~~	~~17~~		
1320	1210		220
1221.5	1193.1		
678.3	685.9		
1480	1480		434
1399.7	1390		
1960.7	1923.1		
2910	2640		748
2428.1	2294		
2550	2660		726
2447.2	610.6		
3100.00	3030.00		871
2913.8	2744.9		
2980.00	2950.00		839
2438	2323.2		
2116.1	2061.1		
1360.00	1380.00		265
1106.7	1109.6		
683.8	654.6		
1050.00	1110.00		284
1045.6	1035.3		
1969	1906.5		
~~5430.00~~	~~5520.00~~		~~742~~

2500.2	2508.7			
2726.9	2606			
2830.00	-9.00			880
2634.6	2619.6			
2712.2	2656.9			
2880	2890			887
~~263.5~~	~~260.1~~			
2470.2	2330.2			
2740.00	2560.00			904
2510	2670			862
2138.9	2112.2			
2282.2	2096			
670	602			136
644.1	639			
641	611	8.5		
900.9	854.2			
1130	1080	8.4		
		~~8.4~~	~~20 U~~	~~320~~
1480	1350			449
1330.2	1318.3			
		~~8.3~~		
1600	1620	8.3		
		~~8.3~~	~~20 U~~	~~500~~
2460.5	2454.5			
2580	2650	7.9		
		~~7.9~~		
		~~7.9~~		
~~2670~~	~~2720~~	~~7.9~~		
		~~7.9~~		
		~~7.9~~		
			~~20 U~~	~~870~~
			~~20 U~~	~~870~~
2630	2620			745
2515	2493.7			
2690	2570	9.8		
		~~9.8~~		
		~~9.8~~	~~20 U~~	~~870~~
2596.7	2561.3			
2570	2490			846
~~2570.00~~	~~2490.00~~			~~846~~
~~0~~	~~0~~			

		9.6
2890	2650	9.6
	20	890
		9.7
2570	2660	9.7
		9.7
2530	2670	9.7
		9.7
		9.7
	36	950
	35	970
2738.2	2675.6	
2730	2600	8.3
		8.3
		8.3
	20 U	940
2780.6	2680.8	
		9.2
1770	1600	9.2
		9.2
1840	1550	9.2
1560.2	1517.5	
1390.00	1310.00	351
668.6	667.9	
655	660	9
651	609 [1] J	9
	30	170
	35	170
1500.9	1495.2	
1650.00	1600	521
		8.3
1720	1800	8.3
	20 U	620
2042.6	2026.3	
2338.7	2264.4	
2370.00	2260	807
		8.6
2480	2730	8.6
		8.6
2710	2610	8.6
		8.6
		8.6
	20 U	830
	20 U	800

2525.9	2487			
			20 U	824
2600	2890			
2620	2870			
			20 U	880
			20 U	880
2431.8	2433.2			
2690.00	2510			820
2327.1	2271.5			
2590.3	2518.1			
2640.00	2590			904
2355.4	2358.2			
2515.4	2474.5			
2360	2590			899
2430	2340	8.6	23	890
1934.5	1916.4			
2270	2290			700
1485.4	1450.3			
910.3	841.7			
551	614	8.1	34	130
726.9	682			
1100	1090	8.5	<20	320
1404.7	1370.5			
1970	2140	8.4	<20	740
2218.1	2191.5			
2440	2130			812
2160	2430	8.4	<20	830
2411.7	2368			
2510	2400	9.5	<20	800
2352.3	2352.5			
2360	2350			794
2456.2	2463.1			
2359.6	2321.6			
2321.9	2293.1			
2347.2	2320.1			
1507.4	1509			
1127.8	1112.6			
1070	1070			
819.1	784			
2089.8	2085.1			
2279	2260.8			
2560	2590			

2295.6	2281.2
2600	2590
2296.5	2243.6
2569.5	2536.5
2318.2	2311.8
2409.2	2266
2345.8	2320.7
2335.8	2330.1
1492.1	1492.2
1180	1160
811.2	819.2
1907.6	1851.3
1877.2	1821.1
2006.1	2003.2
1597.7	1560.5
1938.9	1930.2
2189	2186.3
2204.2	2172.5
2506.6	2407.3
2367	2332.6
1604.4	1567.7
1270	1310
515.9	511.6
810.2	778.2
1483.6	1413.4
2082.8	2043.9
394	394
1650	1603.6
2005.8	1949.2
2494.6	2287

SI_DIS_MG	NA_TOT_M	NA_DIS_M	CL_MG	F_MG	HCO3_MG	CO3_MG	OH_MG	NH3_MG as N	NO2_MG
-9.00	-9.00	-9.00	-9.00	2.74	-9.00	-9.00	-9.00	-1.00	-9.00
-9.00	-9.00	-9.00	-9.00	1.89	-9.00	-9.00	-9.00	0.10	-9.00
-9.00	-9.00	-9.00	-9.00	2.33	-9.00	-9.00	-9.00	-1.00	-9.00
27.00	4.40	4.50	-1.00	1.70	-9.00	-9.00	-9.00	-1.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	1.50	-9.00	-1.00	0.46	-9.00	-9.00	-9.00	-1.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	5.20	-9.00	2.10	2.04	-1.00	-9.00	-9.00	-1.00	-1.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
			4.4	1	1				
-9.00	6.30	-9.00	3.70	-9.00	-9.00	0.00	0.00	0.00	0.00
-9.00	4.09	4.40	4.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	1.32	-9.00	4.00	-9.00	-9.00	0.00	-9.00	-9.00	-9.00

-9.00	3.60	-9.00	4.00	-9.00	-1.00	0.00	-9.00	-9.00	-9.00
-9.00	4.10	-9.00	1.00	-9.00	-9.00	0.00	-9.00	-9.00	-9.00
13.00	-9.00	2.70	20.00	2.10	-9.00	-9.00	-9.00	-1.00	-9.00
-9.00	2.80	-9.00	-1.00	1.20	-1.00	-1.00	-1.00	-1.00	-1.00
-9.00	1.10	-9.00	-1.00	-1.00	-1.00	-1.00	-1.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	3.60		-1.00	1.50	-1.00	-1.00	-1.00	-9.00	-9.00
	3.30		-1.00	1.70	-1.00	-1.00	-1.00	-1.00	-1.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
		3.71	1.44						
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	4.06	4.09							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	5.50	-9.00	<1	1.70	<5	<5	<5	<.2	<.05

	4.19	4.25							
	4.08	4.15							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	4.07	4.05							
	4.20		1.00	1.80	-1.00	-1.00	-1.00		
	1.55	2.88							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	2.46	2.24							
	1.70		-1.00	0.60	-1.00	-1.00	-1.00		
	1.26	1.21							
	1.30	1.35							
	1.79	1.61							
	1.11	0.95							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	1.06	1.13							
	0.87	1.03							
	0.90	1.10							
	0.99	1.27							
	1.60		-1.00	0.70	-1.00	-1.00	-1.00		
	1.56	1.75							
	2.07	2.02							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	2.26	2.37							
	2.80								
	3.91								
	4.27								

		3.05							
	6.00		4.00	1.60	-1.00	-1.00	-1.00		
	1.67	2.54							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	3.17	2.51							
	3.40		-1.00	1.50	-1.00	-1.00	-1.00		
	4.10	3.90							
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	5.01	3.93							
	4.10		-1.00	1.80	-1.00	-1.00	-1.00		
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
	4.72	4.03							
	4.80		-1.00	1.90	-1.00	-1.00	-1.00		
	4.99	4.43							
	2.92	3.72							
	4.03	1.99							
	2.20		-1.00	1.00	-1.00	-1.00	-1.00		
-9.00	1.40	-9.00	-1.00	0.60	-1.00	-1.00	-1.00	-9.00	-9.00
		3.58	BDL	1.77					
-9.00	3.70	-9.00	-1.00	2.00	-1.00	-1.00	-1.00	-9.00	-9.00

	3.98	3.41							
	3.80		1.00	1.80	-1.00	-1.00	-1.00		
		4.385							
	4.20		1.00	2.10	-1.00	-1.00	-1.00		
-9.00	4.20	-9.00	1.00	2.10	-1.00	-1.00	-1.00	-9.00	-9.00
		3.803							
-9.00	3.70	-9.00	2.00	2.00	-1.00	-1.00	-1.00	-9.00	-9.00
		3.006							
-9.00	3.40	-9.00	1.00	1.60	-1.00	-1.00	-1.00	-9.00	-9.00
		1.433							
		1.064							
		1.02	BDL	0.41					
		1.596							
		1.913							
	1.8		3	0.9	<5	<5	<5		
	1.8		3	0.9	<5	<5	<5		
		2.213							
	1.9		1	1.1	<5	<5	<5		
	3.7		1	2.2	<5	<5	<5		
	4.1		3	2.3		<5	<5		
	4.8		2	1.4	<5	<5	<5		
	1.6		<1	0.6	<5	<5	<5		
	3.1		1	1.8	<5	<5			
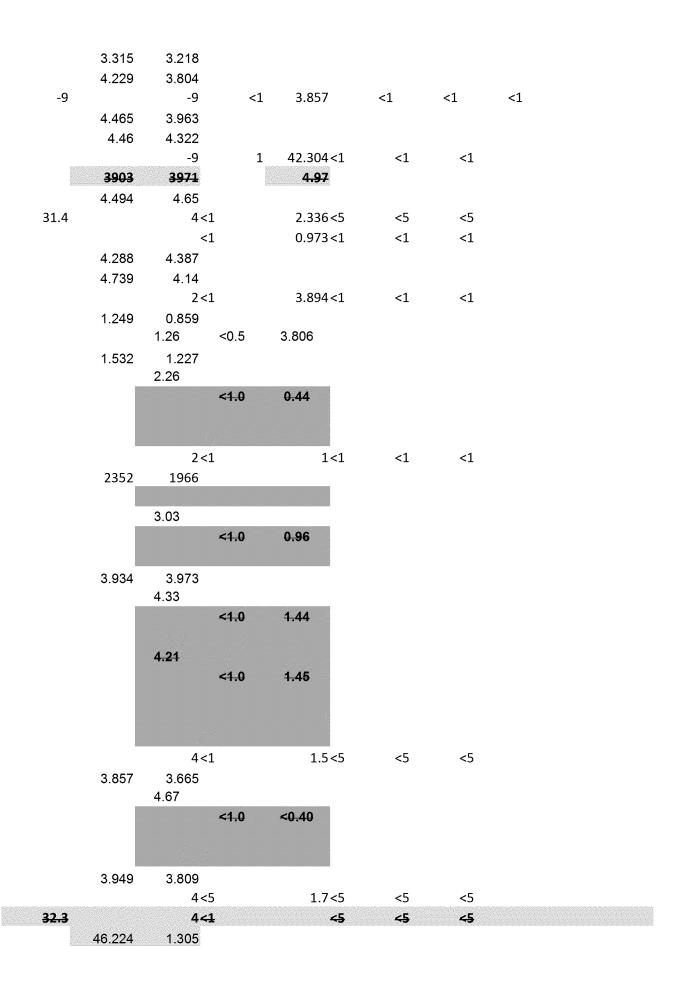
	3.5		4	1.9	<5	<5		
	4		2	2.2	<5	<5	<5	
	4.8		2	2.7	<5	<5	<5	
		5	3	3	<5	<5	<5	
	1.9		2.8	0.8	<5	<5	<5	
	2		<1	1.3	<5	<5	<5	
	3.9		2.3	1.6	<5	<5	<5	
	4.3	4.6	1	<.05	<5	<5	<5	
	5.1		1	1.9	<5	<5	<5	
	5.1		2.2	1.8				
20.7		3.3	1.2	0.8	<1	ND		
		4.63	0.57	1.6	<1	<1		0.18
29.7		4.4	<1	1.7	<1	<1	<1	0.31
	4.9		<1	1.7	<1	<1	<1	
	1.8		<1	1.7	<1	<1	<1	
	3.16		<1	1.16	<1	<1	<1	
	<1		<1	1.01	<1	<1	<1	
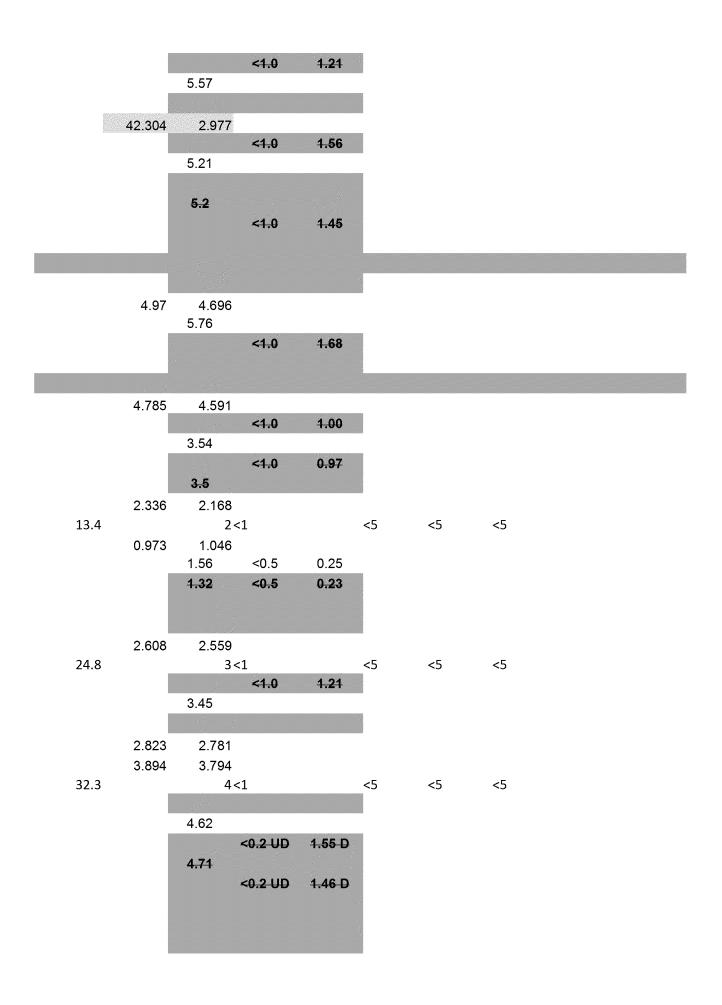
		1	1.2	<1	<1	<1
4.3		<1	1.4		<1	
4.2		21.4	1.4		<1	
1.6		<1	0.6		<1	
2.6		<1	0.8		<1	
5		<1	1.4		<1	
	4	1	1.4	1	1	1
34.4	4	<1	0.7	<1	<1	<1
23.5	4	3	1.1	<1	<1	<1
12.3	2	<1	0.8	<1	<1	<1
	2<1		0.8<1	<1	<1	
28.2	4	2	1.6<1	<1	<1	
	4	2	1.6<1	<1	<1	
29.2	4<1		0.2<1	<1	<1	
	5<1		1.7<1	<1	<1	

		4 <1		1.6 <1	<1	<1	
		2 <1		0.7 <1	<1	<1	
		2 <1		1.2 <1	<1	<1	
		3 <1		1.6 <1	<1	<1	
		3 <1		1.2 <1	<1	<1	
35.4		4	3	1.8 <1	<1	<1	
	8.7	0.5					
14		2 <1		0.6 <1	<1	<1	
	1.452	1.465					
	1.07	0.984					
17.4		2.7 <1		2.411 <1	<1	<1	
	2.411	2.33					
	3.112	2.901					
29.1		4.2 <1		4.599			
	4.065	3.688					
28.1		4 <1		5.973 <1	<1	<1	
	4.599	2.961					
31.5		4	<1	1.815	1.9	<1	<1
	6.131	5.786					
32.6		5	<1	1.235	<1	<1	<1
	5.973	5.287					
	4.987	4.922					
9.8		2	<1	4.229	<1	<1	<1
	1.815	1.916					
	1.506	0.811					
8		2	<1	4.494	<1	<1	<1
	1.235	1.223					
	2.523	2.408					
35.2		4	<1	1.249	<1	<1	<1

3.315 3.218
4.229 3.804
-9 -9 <1 3.857 <1 <1 <1
4.465 3.963
4.46 4.322
-9 1 42.304 <1 <1 <1
3903 **3971** **4.97**
4.494 4.65
31.4 4 <1 2.336 <5 <5 <5
<1 0.973 <1 <1 <1
4.288 4.387
4.739 4.14
2 <1 3.894 <1 <1 <1
1.249 0.859
1.26 <0.5 3.806
1.532 1.227
2.26

<1.0 **0.44**

2 <1 1 <1 <1 <1
2352 1966

3.03

<1.0 **0.96**

3.934 3.973
4.33

<1.0 **1.44**

4.21

<1.0 **1.45**

4 <1 1.5 <5 <5 <5
3.857 3.665
4.67

<1.0 **<0.40**

3.949 3.809
4 <5 1.7 <5 <5 <5
32.3 **4 <1** **<5** **<5** **<5**
46.224 1.305

<1.0   1.21

5.57

42.304   2.977

<1.0   1.56

5.21

5.2

<1.0   1.45

4.97   4.696

5.76

<1.0   1.68

4.785   4.591

<1.0   1.00

3.54

<1.0   0.97

3.5

2.336   2.168

13.4   2<1   <5   <5   <5

0.973   1.046

1.56   <0.5   0.25

1.32   <0.5   0.23

2.608   2.559

24.8   3<1   <5   <5   <5

<1.0   1.21

3.45

2.823   2.781

3.894   3.794

32.3   4<1   <5   <5   <5

4.62

<0.2 UD   1.55 D

4.71

<0.2 UD   1.46 D

3.857   3.771

4.96

<0.2 UD   1.44 D

<0.2 UD   1.65 D

4.84

3.806   3.814

35   4 <1   <1   <1   <1

4.826   4.56

7.0   4.7

41   4 <1   <1   <5   <5   <5

4.3   3.8

4.3   4.3

40.6   5 <1   1.6 <5   <5   <5

5.18   <1.0   1.5

2.3   2.0

30.4   4 <1   0.9 <5   <5   <5

0.5   0.5

0.5   0.5

1.24   <0.5   0.3

0.3   0.3

1.91   <1.0   0.6

0.7   0.6

4.05   <1.0   1.2

1.0   1.0

38.8   4 <1   1 <5   <5   <5

4.87   <1.0   1.4

1.0   0.9

4.59   <1.0   1.2

4.2   3.2

34.1   4 <1   1 <5   <5   <5

4.0   4.1

4.048   3.92

3.969   4.007

4.939   4.008

2.745   2.435

1.973   1.689

2080   2150   0.7

1.634   1.572

3.653   3.63

3.614   3.621

4840   4800   1.9

4.412	4.373		
4950	4780		1.8
4.649	4.47		
5.691	5.84		
2.986	2.755		
2.599	2.586		
2.353	2.254		
3.674	3.716		
0.652	0.452		
1590	1570	1	0.5
1.276	1.03		
1.772	1.737		
1.432	1.449		
1.61	1.677		
1.567	1.397		
1.901	1.715		
2.14	1.911		
2.07	1.864		
1.799	1.834		
2.343	2.281		
1.081	1.055		
1690	1700		
0.411	0.377		
0.543	0.716		
1.296	1.258		
1.676	1.807		
0.635	0.635	10.3	1.3
1.15	1.249		
1.538	1.57		
2.087	1.837		

NO3_MG	NO2_NO3	K_TOT_MG	K_DIS_MG	SO4_MG	BI_TOT	BI_DIS	GA_TOT	GA_DIS	MO_TOT
-9.00	0.03	-9.00	-9.00	688.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-1.00	-9.00	-9.00	676.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-1.00	-9.00	-9.00	348.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-1.00	1.70	1.70	460.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-1.00	0.70	-9.00	160.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	0.27	1.60	-9.00	656.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
			1.5	560					
-9.00	0.00	1.50	0.00	-9.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	1.48	1.70	498.00	-9.000	-9.000	-9.00	-9.00	-9.00
792.00	-9.00	0.67	-9.00	101.00	-9.000	-9.000	-9.00	-9.00	-9.00

-9.00	-9.00	1.40	-9.00	440.00	-9.000	-9.000	-9.00	-9.00	-9.00
0.12	-9.00	1.35	-9.00	746.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-1.00	-9.00	2.30	670.00	-9.000	-9.000	-9.00	-9.00	-9.00
0.08	0.08	1.40	-9.00	390.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	0.50	-9.00	110.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	177.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	1.20		380.00					
-1.00	-1.00	1.40		560.00					
-9.00	-9.00	-9.00	-9.00	522.00	-9.000	-9.000	-9.00	-9.00	-9.00
			2.90	469.00					
-9.00	-9.00	-9.00	-9.00	480.00	-9.000	-9.000	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	521.00	-9.000	-9.000	-9.00	-9.00	-9.00
				494.0					<10
-9.00	-9.00	-9.00	-9.00	572.00	-9.000	-9.000	-9.00	-9.00	-9.00
<.05	<.05	2.20	-9.00	580.00	-9.000	-9.000	-9.000	-9.000	-9.000

				487.0					<10
				537.0					<10
-9.00	-9.00	-9.00	-9.00	624.00	-9.000	-9.000	-9.00	-9.00	-9.00
				521.0					<10
		2.00		600.00					
				338.0					<10
-9.00	-9.00	-9.00	-9.00	521.00	-9.000	-9.000	-9.00	-9.00	-9.00
				241.0					<10
		0.70		180.00					
				121.0					<10
				94.6					<10
				155.0					<10
				59.0					<10
-9.00	-9.00	-9.00	-9.00	116.00	-9.000	-9.000	-9.00	-9.00	-9.00
				79.0					32.2
				78.0					28.5
				91.0					<10
				113.0					15.6
		0.60		180.00					
				161.0					29.1
				216.0					<10
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				268.0					27.3
				383.0					<10
				319.0					<10
				322.0					<10

									0.0
		1.70		380.00					
				249.0					<10
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				319.0					<10
		1.60		430.00					
				490.0					<10
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			1.99	536.6					<10
		2.20		620.00					
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			2.15	545.0					<10
		1.70		580.00					
		1.77	1.92	556.6					<10
				541					
		1.16	1.32	341.0					<10
		0.82	0.88	207.0					<10
		1.10		48.00					
				126					
-9.00	-9.00	0.70	-9.00	140.00	-9.00	-9.00	-9.00	-9.00	-9.0
				403					
			BDL	466					
-9.00	-9.00	1.70	-9.00	540.00	-9.00	-9.00	-9.00	-9.00	-9.0

		1.56	1.63	493.0					<10
				573					
		1.80		510.00					
			1.48	493.0					0.0
		2.20		520.00					
-9.00	-9.00	2.20	-9.00	520.00	-9.00	-9.00	-9.00	-9.00	-9.0
				754					
									0.0
-9.00	-9.00	1.80	-9.00	570.00	-9.00	-9.00	-9.00	-9.00	-9.0
				524					
									0.0
-9.00	-9.00	1.40	-9.00	480.00	-9.00	-9.00	-9.00	-9.00	-9.0
									0.0
				89					
			0.43	74					0.0
			BDL	82.7					
				150					
			0.64	147					0.0
			2.5	170					
			2.5	170					
			1.6	250					
				550					
			2.5	700					
				597					
		2.4		680					
				640					
		1.9		650					
				620					
		1.1		170					
				163					
		1.4		290					

			574		
3.9			430		
			918		
1.6			560		
			764		
1.8			620		
			963		
	2		680		
			430		
1.6			180		
			136		
0.8			270		
			856		
1.6			440		
			789		
2	2.1		630		<.003
			855		
22			680		
			849		
2			630		
			446		
			388		
	0.8		291.8		
0.24		1.79	477		
			528		
<.10		1.9	566		
			498		
2.1			527		
			629		
<1			506		
			574		
1.54			299		
1.203			256.7		

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1.5

		2.1		503					

2.3   557

<1   155

1.1   246

2   548

2

<1

2

<1
<1
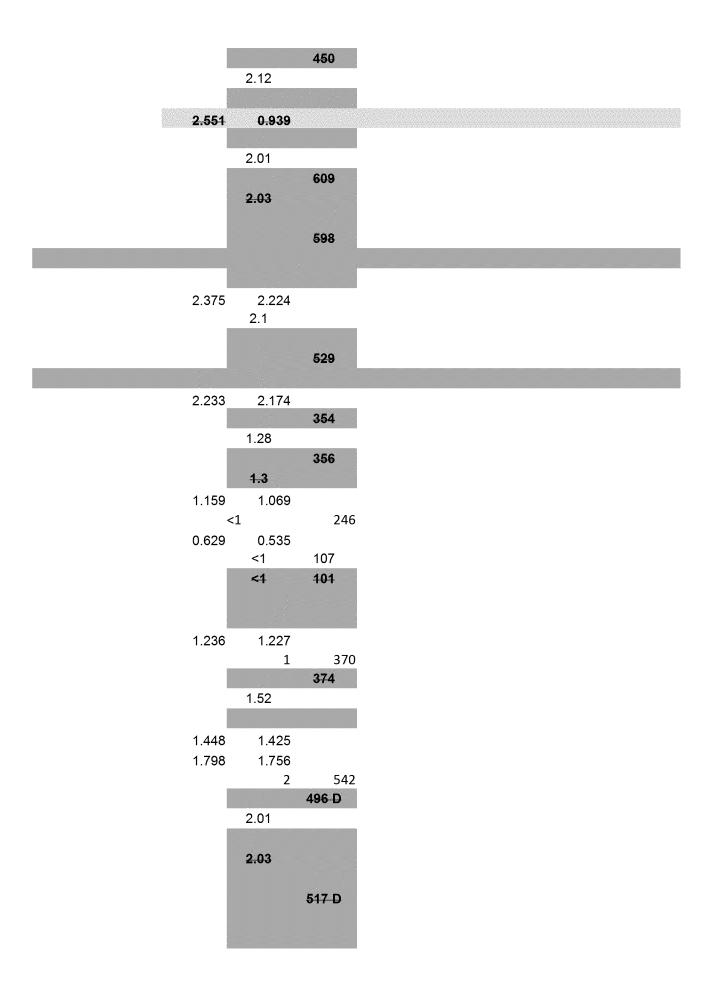
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1

2   586

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	<1	330
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	1	379
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	2	157
2.213	1.995	
0.649	0.562	
	<1	311
1.113	1.09	
1.562	1.372	
	2.4	536
1.707	1.884	
	2	
2.536	0.914	
	2	6
2.723	2.487	
	2	633
2.427	2.351	
2.153	2.101	
	<1	207
0.997	1.008	
1.312	0.564	
	<1	187
0.748	0.756	
1.291	1.229	
	2	**439**

1.612   1.586
1.842   1.819
        -9   615
1.918   1.944
1.911   1.836
        2   642

850   **826**

1.964   1.975
        3   688
        2   606
1.846   1.864
1.923   1.666
   <1   79
1.084   0.593
    <1   86.1
0.73   0.675
    <1

199

        1   287
1055   896

279

    1.23

1.775   1.702
    1.95

534

1.91

547

        2   535
1.877   1.817
    1.92

507

1.905   1.834
        2   619

2   **619**

10.836   **0.629**

450

2.12

2.551   **0.939**

2.01

609

2.03

598

2.375   2.224

2.1

529

2.233   2.174

354

1.28

356

1.3

1.159   1.069

<1   246

0.629   0.535

<1   107

<1   **101**

1.236   1.227

1   370

374

1.52

1.448   1.425

1.798   1.756

2   542

496 D

2.01

2.03

517 D

1.706   1.658

566 D

2.08

504 D

2.02

1.738   1.744

2   578

2.03   2.07
2.5   2.2

2   665

2.0   2.0
2.2   1.9

2   691

2.28   499
1.4   1.3

2   509

0.8   0.8
0.6   0.4

<1   79.1

0.5   0.5

<1   204

1.2   0.9

1.72   429

1.4   1.4

2   568

2.14   490

1.4   1.3

1.97   498

2.1   1.5

2   564

1.8   1.8
1.826   1.761
1.813   1.823
2.235   1.878
1.804   1.169
0.793   0.819
854   829   210
0.736   0.699
1.578   1.566
1.685   1.735
2160   2010   581

1.897	1.856	
2200	1950	579
2.008	1.929	
2.635	2.703	
1.823	1.68	
1.794	1.783	
2.208	2.134	
1.672	1.675	
0.843	0.802	
891	758	163
0.783	0.74	
1.697	1.672	
1.449	1.381	
1.685	1.678	
1.152	1.327	
1.713	1.62	
1.832	1.963	
1.818	1.814	
1.875	1.87	
2.073	2.035	
1.186	1.152	
1030	729	
0	0	
0.379	0	
0	0	
0.513	0.579	
		348
0.342	0.372	
0.976	0.984	
1.742	1.512	

MO_DIS	SN_TOT	SN_DIS	TI_TOT	TI_DIS	ZR_TOT	ZR_DIS	SiO2_TOT r	SiO2_Dis m	Sum Cations
									meq/L
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
< 1.0								26	
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			

-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00

34.1   29.68   35.24

-9.00   -9.00   -9.00   -9.00   -9.00   -9.00   -9.00

-9.000   -9.000   -9.000   -9.000   -9.000   -9.000   fg   -9.000   -9.000   -9.000

<10								31.98	37.26
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<10								31.86	35.93
16.6								18.71	26.49
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
<10								20.02	21.92
<10								13.43	11.30
<10								12.17	11.45
<10								15.32	14.09
<10								16.19	9.83
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
<10								11.23	11.95
<10								9.41	10.59
<10								9.56	11.00
<10								9.82	11.68
<10								13.37	14.93
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<10								17.53	20.53
0.0								22.26	
0.0								215.27	
0.0								275.19	

<10								23.39	
<10							14.66	20.64	
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-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
26.4							33.42	29.81	
-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00			
18.2							34.18	31.51	
<10							34.71	31.46	
<10							21.44	23.52	
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-9.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
								36.1	
-9.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00

<10									30.24	26.49
20.5									30.863	
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<10									24.270	
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<10									10.051	
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24.0									14.034	
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								13		
								13		
<10									17.933	
								9		
								13		

<.003

12

11.4

6.76

6.03

									10.8

									13.6
									367
									5.71
									11.9
									10.3
									12.8
									7.73
									3.94
			<1	<1					3.94

									11.7
			<1	<1					11.7
									10.4
			<1	<1					14.2

<1	<1			11.8
<1	<1			3.84
<1	<1			9.39
<1	<1			11.6
<1	<1			9.74
<1	<1			14.9
<1	<1			4.15
<1	<1			7.04
<100	<100			11.7
<1	<1			9.69
		<1	<1	14.6
		<1	<1	13.8
		<1	<1	4.58
		<1	<1	4.33
<1	<1			9.36

<1   -9   -9

                                                          34.9   12.7

<1   <1   13.4
                                                          34   12

                                                          9.6   2.02

                                                          20.3   5.64

                                                          34.6   9.27

                                                          32.3   12.8
<1   <1   12.8

<1   <1   5.2

<1   <1   7.35

<1   <1   10.5

<1	<1	11.5
<1	<1	13.6
<1	<1	14.2
<1	<1	9.77
<1	<1	11.4
<1	<1	11.3

Sum Anions meq/L	Charge Balance meq/L		Sampler	Well Depth feet	Water level feet	Casing abv. Grd.	water column	DOC

-9.000   -9.000   -9.000

Phil Alcon

Phil Alcon

Phil Alcon

Phil Alcon

Phil Alcon

Silverton Sch

DOW
Silverton Sch

Silverton Sch

Silverton Sch

Silverton Sch

Silverton Sch

Silverton Sch

Silverton Sch

Silverton Sch
Silverton Sch

Silverton Sch

Silverton Sch
Silverton Sch

Silverton Sch

Silverton Sch
Silverton Sch

Silverton Sch
Silverton Sch

-9.00   -9.00

Silverton Sch
Silverton Sch
Silverton Sch

Silverton Sch

-9.00   -9.00

Silverton Sch

Silverton Sch

Silverton Sch

-9.00   -9.00

Silverton Sch

Silverton Sch

-9.00   -9.00

Silverton Sch
Silverton Sch

Silverton Sch

-9.00   -9.00

Phil Alcon

Phil Alcon
Silverton Sch
GN
Silverton Sch
Phil Alcon
Silverton Sch
GN
Silverton Sch
Phil Alcon
Silverton Sch
GN
Silverton Sch
Phil Alcon
Silverton Sch
GN
Phil Alcon
GN
Phil Alcon

		GN
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		Phil Alcon
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		Phil Alcon
		GN
		Phil Alcon
		GN
		Phil Alcon
		GN
		Phil Alcon
		GN EN
		Phil Alcon
		GN EN
		Phil Alcon
		GN EN
		Phil Alcon
		GN EN
		Phil Alcon
		GN EN
		GN EN
		Phil Alcon
		Silverton Sch
		Phil Alcon
		Silverton Sch
		GN EN
		Silverton Sch
		Phil Alcon
		Silverton Sch
		GN EN
		Silverton Sch
11.1	3.95	Phil Alcon
		GN EN
10.6	3.65	Phil Alcon
		GN
6.29	3.58	Phil Alcon
5.4	5.57	Phil Alcon
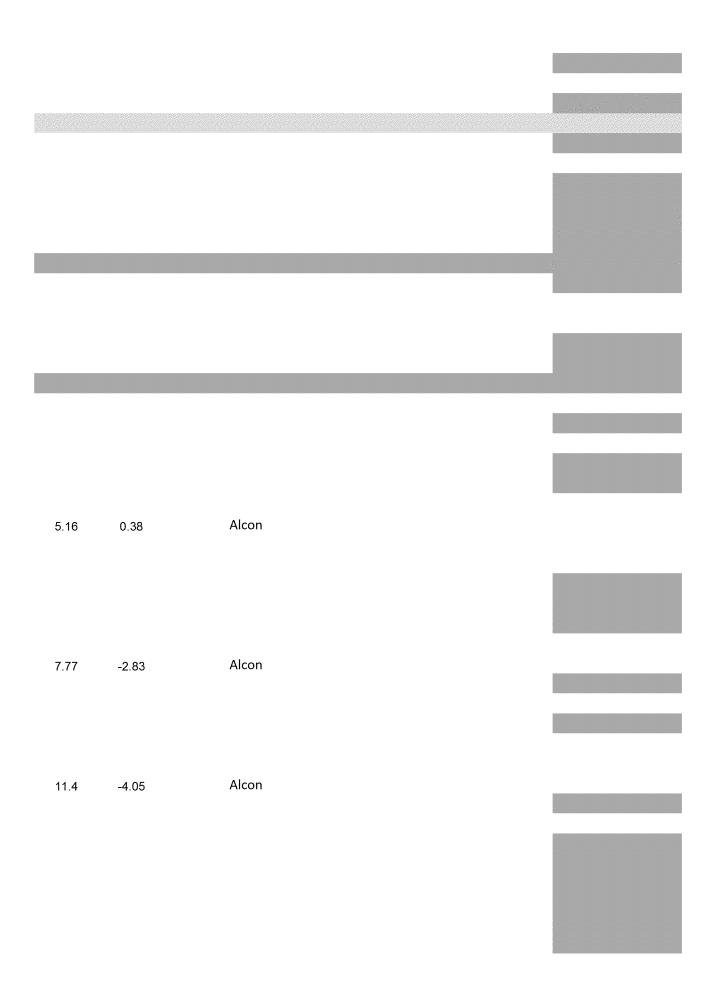
Phil Alcon

10.4	Phil Alcon

12.3   Phil Alcon

337   Phil Alcon

5.17   Phil Alcon

11.5   Phil Alcon

9.36   Phil Alcon

11.7

7.51

3.38
        3.38   7.7

9.96	**8.25**	
9.96	8.25	

        10.6   0.671

        12.3   7.3

12.3	2.31	
3.89	0.721	
6.93	15.1	
9.98	7.39	
7.96	10.1	
13.5	4.91	
3.31	11.2	
6.55	3.67	
11.3	1.98	
9.52	0.875	
13.4	4.06	Phil Alcon
13.3	2.08	Phil Alcon
4.35	2.61	Phil Alcon
3.93	4.79	Phil Alcon
9.22	**0.734**	**Phil Alcon**

-9 -9 Phil Alcon

13.5 -3.26%

14.4 -3.76 Alcon

12.9 -3.54%

1.66 -9.91%

0.87

0.65

6.04 -3.41%

<0.50

<0.50

0.59

11.2 -9.56%

<0.50

13 -0.65%

13 -0.65 Alcon

5.16   0.38   Alcon

7.77   -2.83   Alcon

11.4   -4.05   Alcon
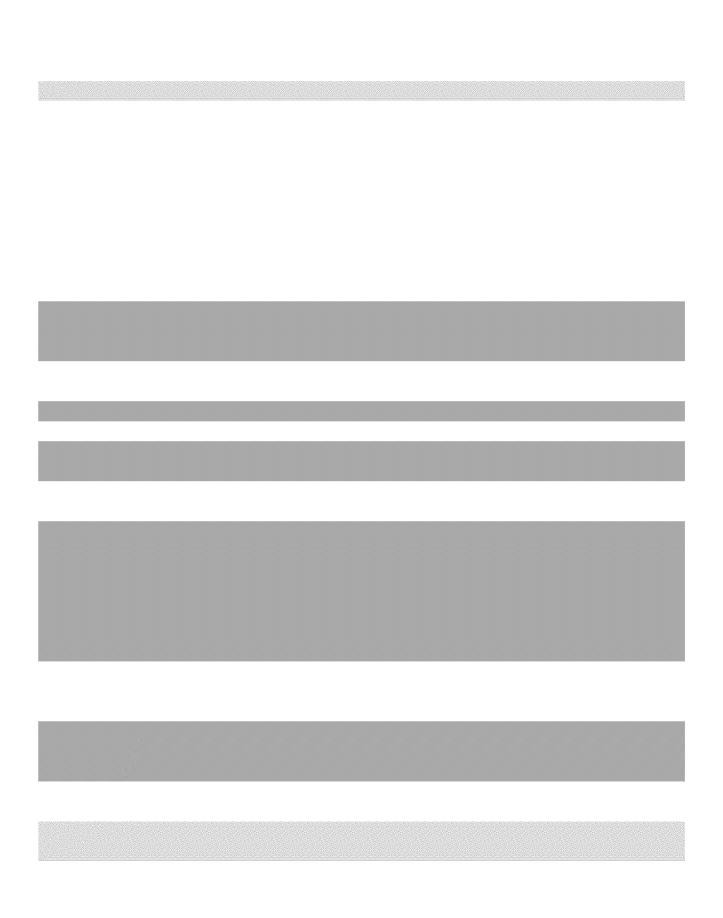
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14	-1.15	Phil Alcon
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10.7	-4.42	Phil Alcon
12	-2.33	Phil Alcon
11.8	-2.16	Phil Alcon
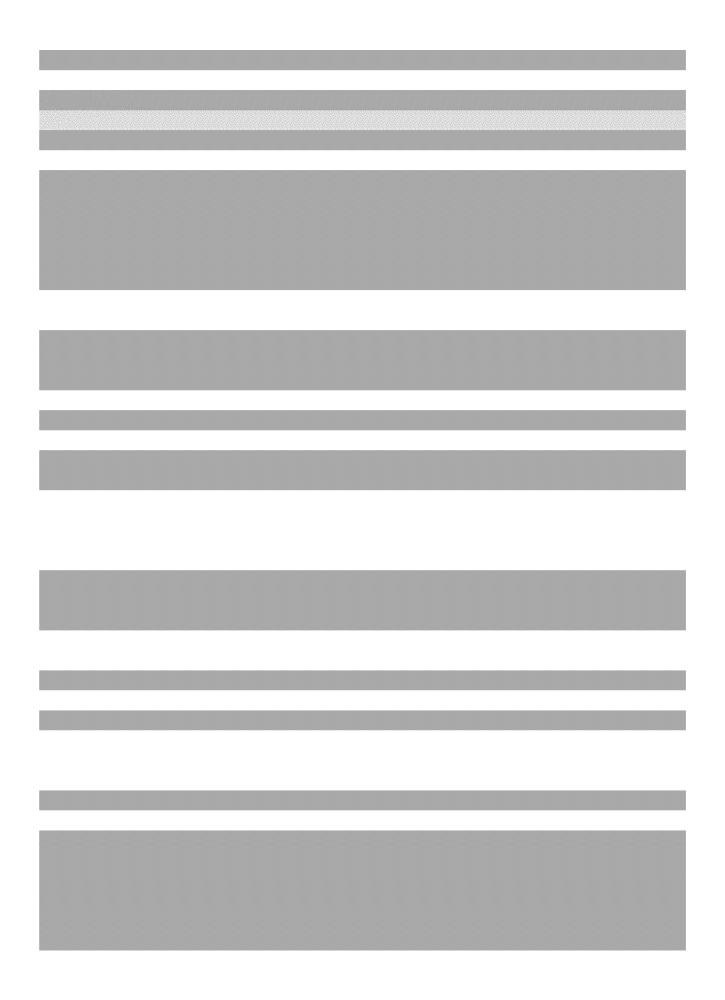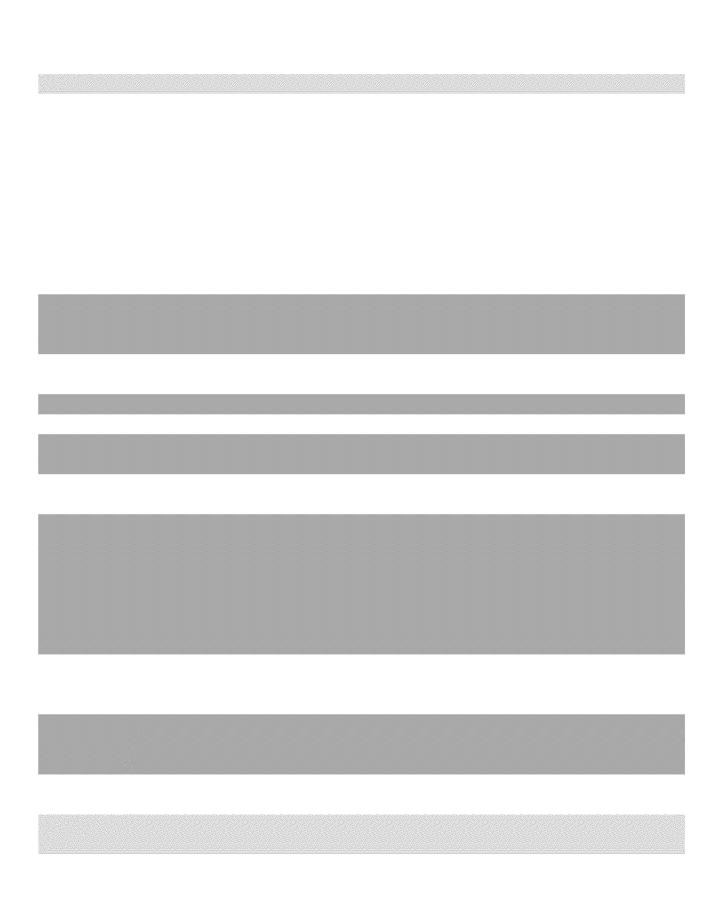
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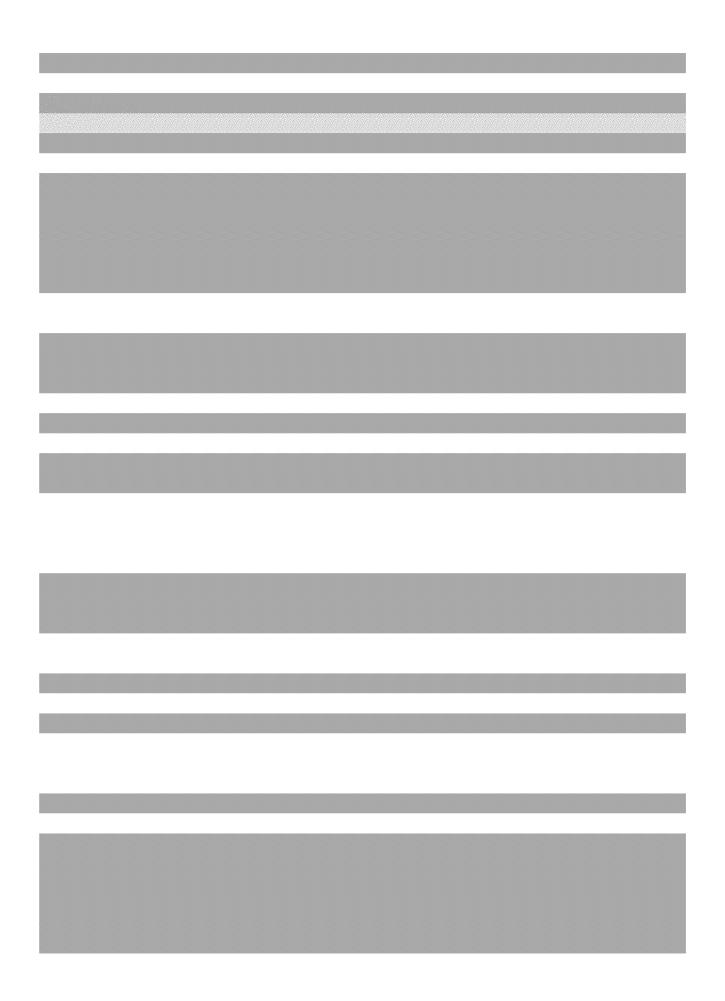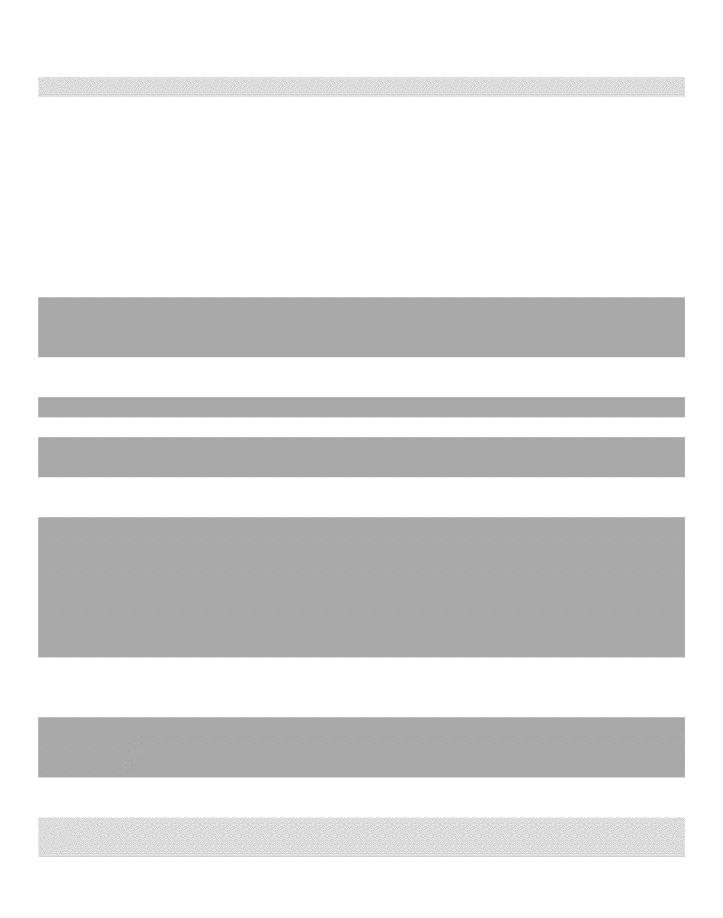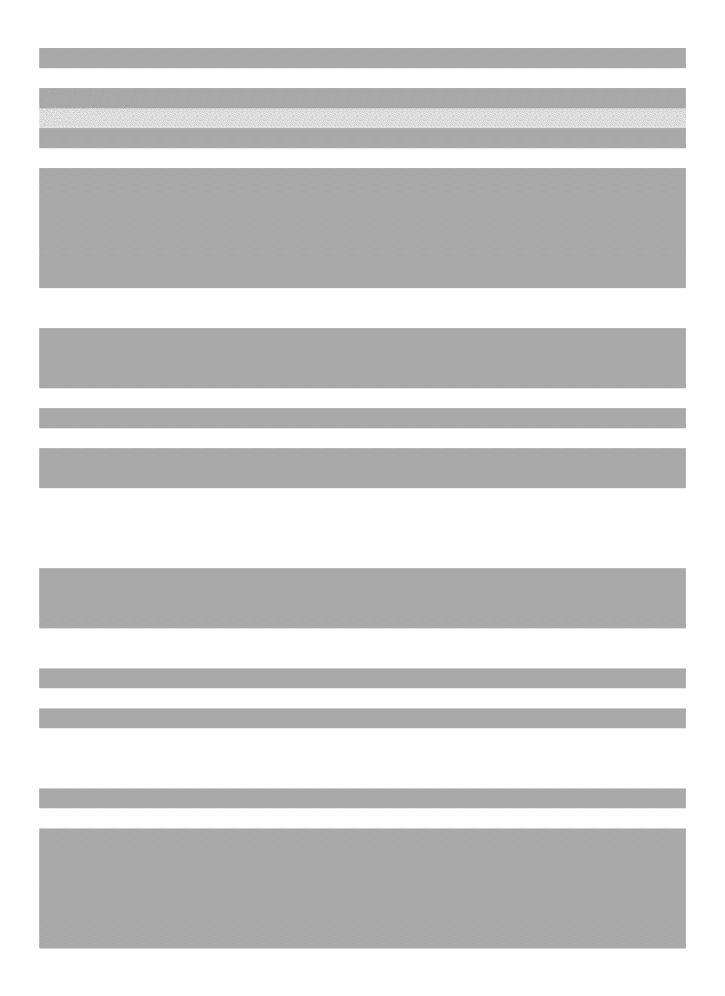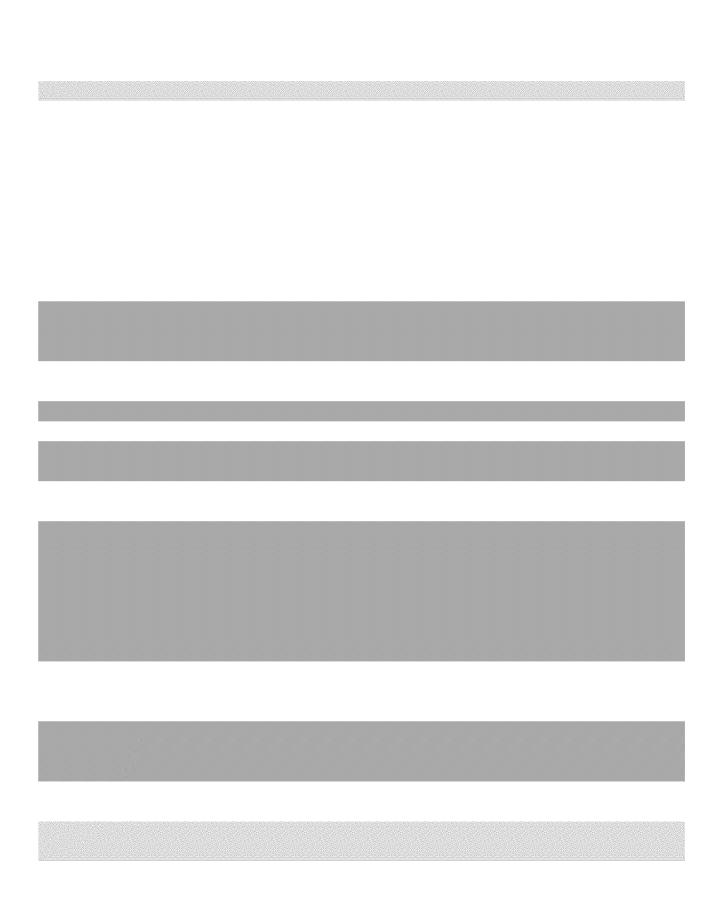
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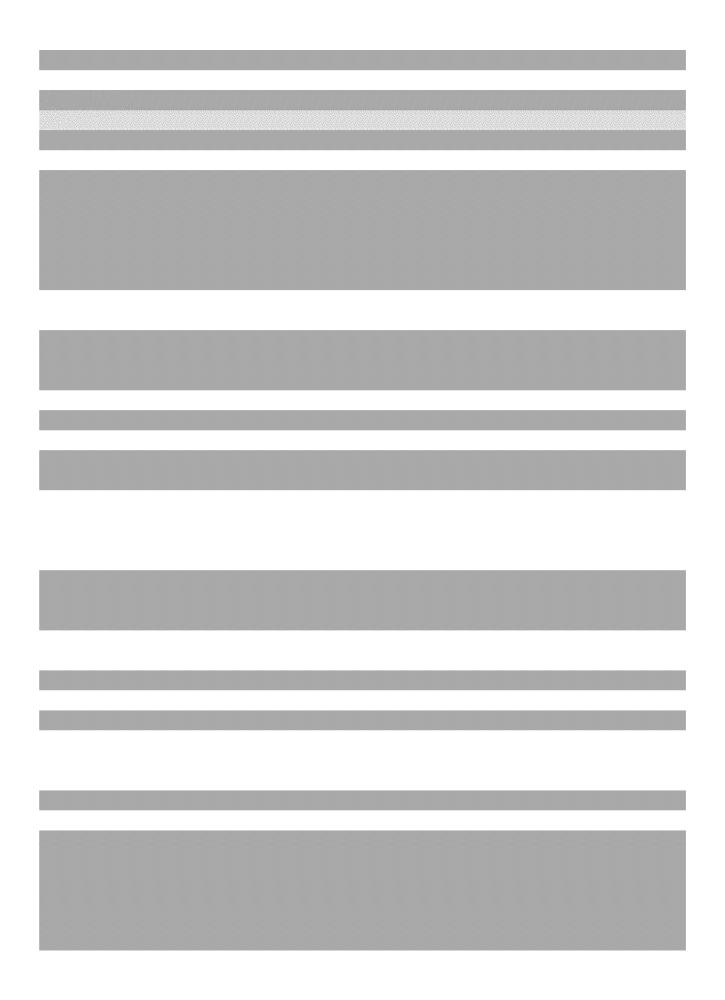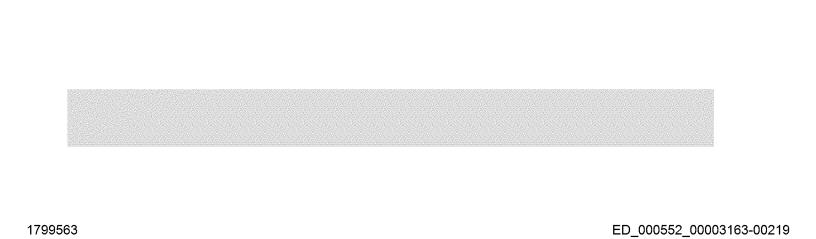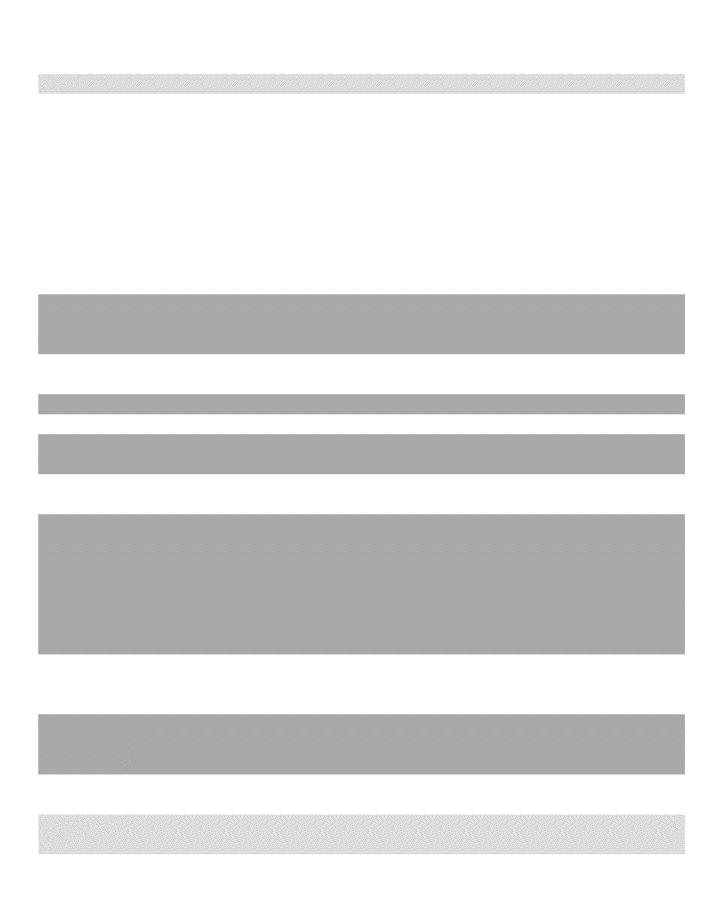
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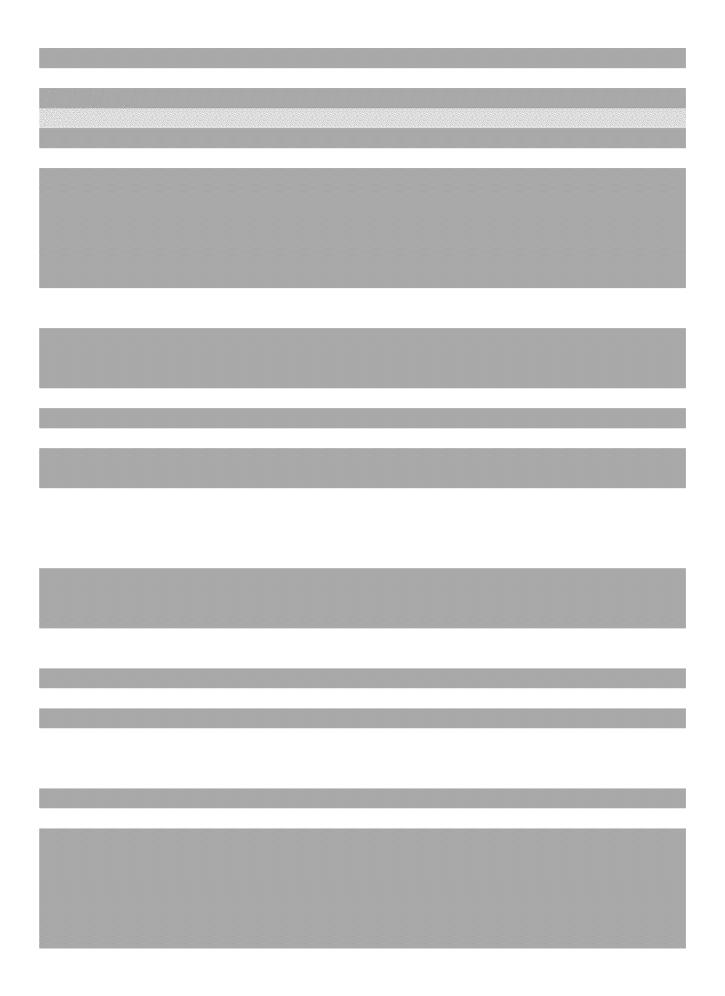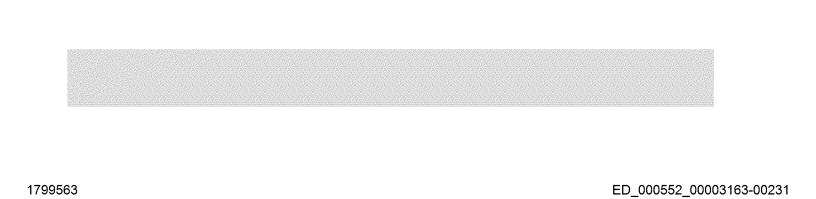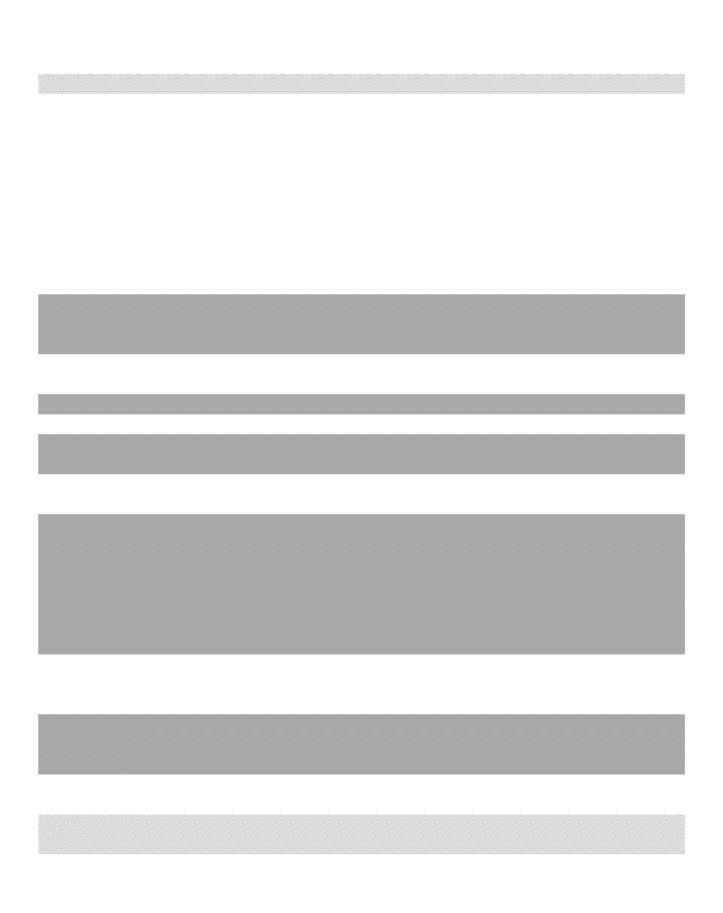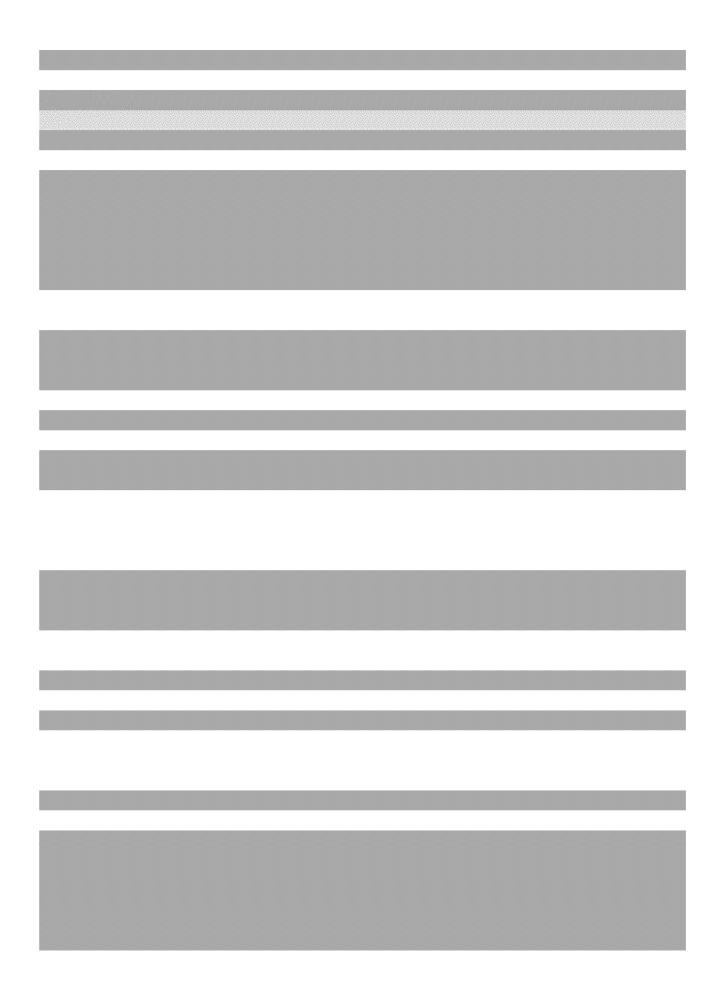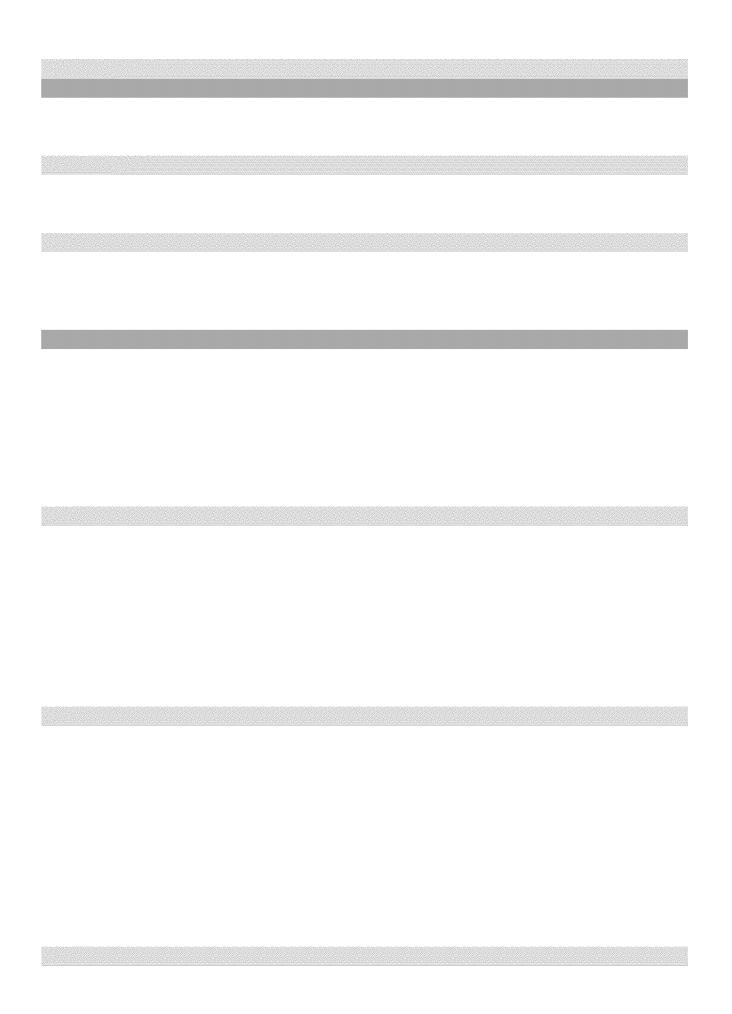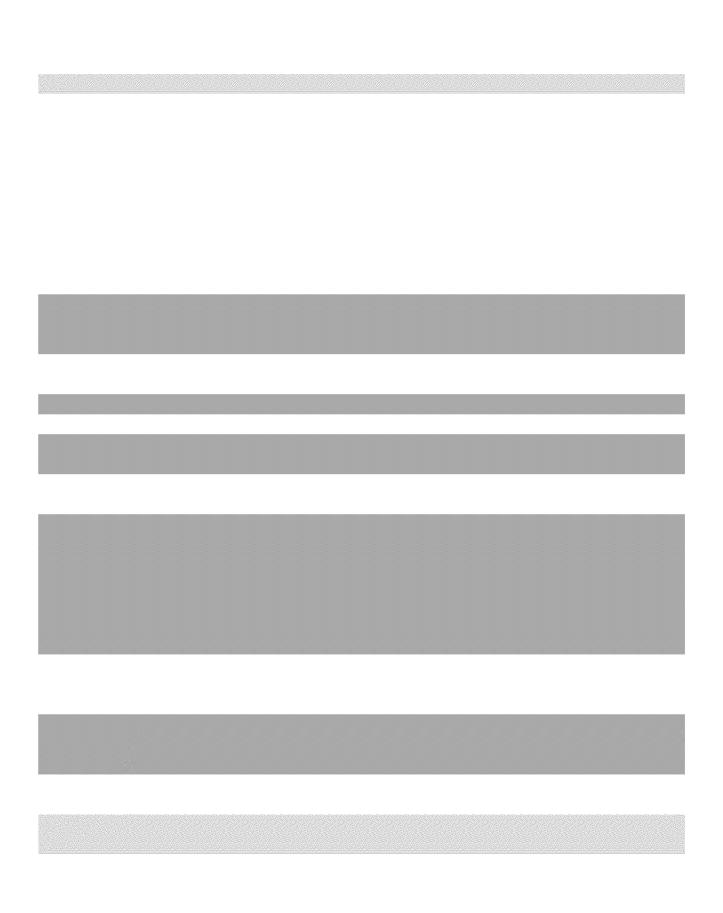
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ED_000552_00003163-00250
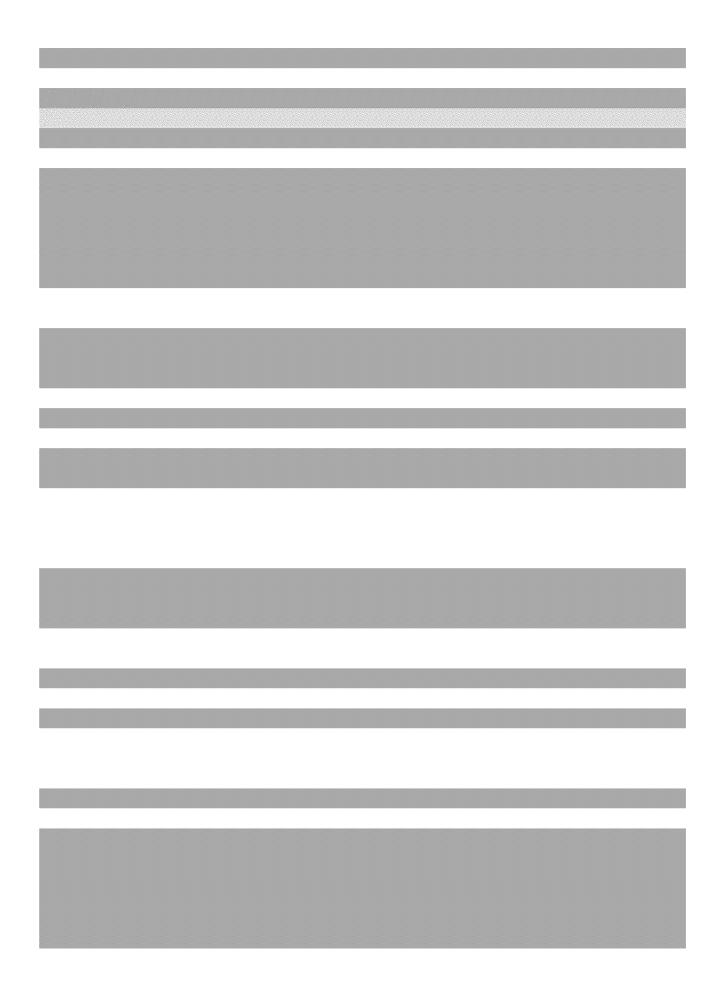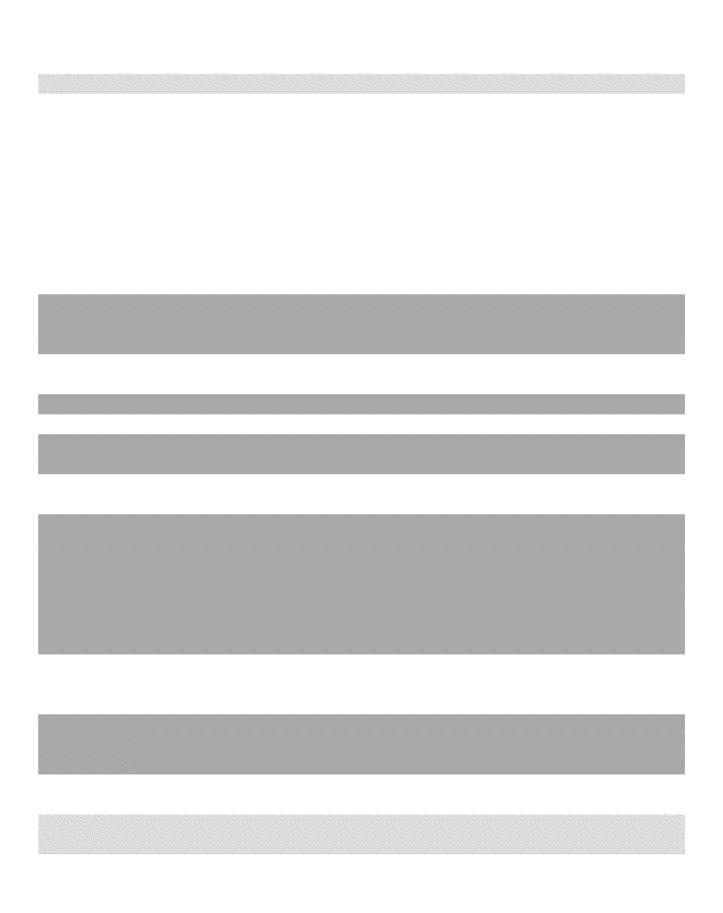
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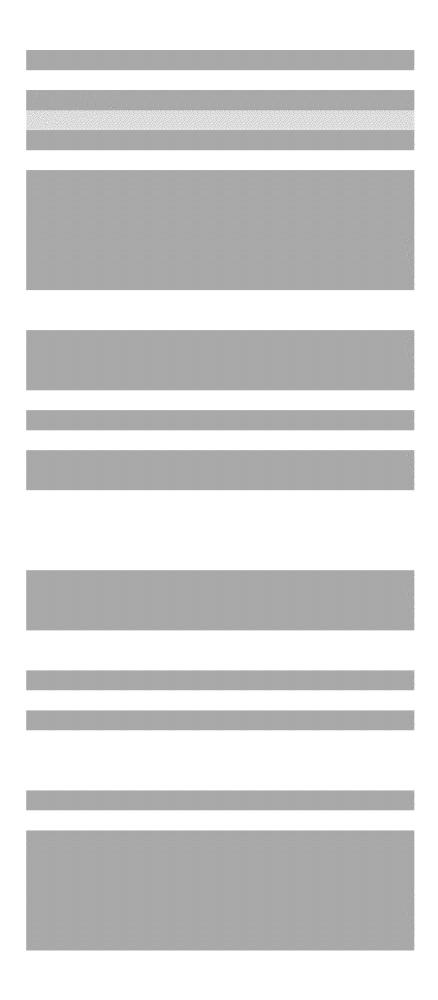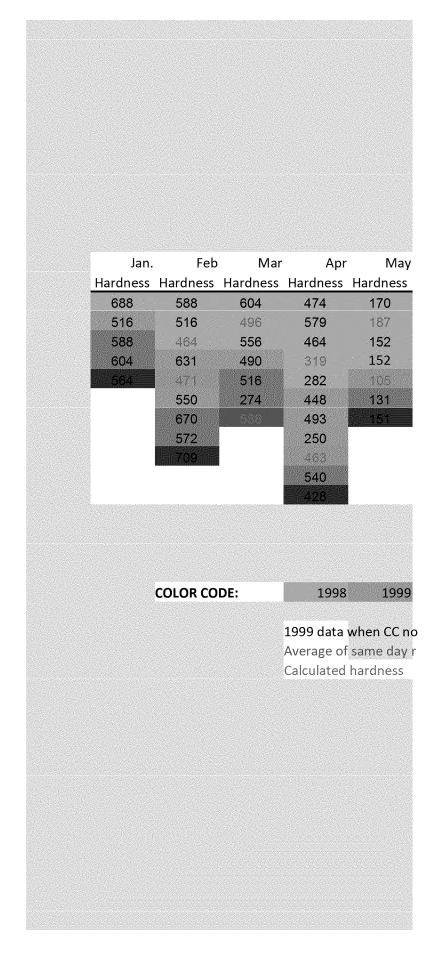
DATE	HARD_MG as CaCO3=	CA_DIS_MG	MG_DIS_MG
2/11/1991	635.00	-9.0	-9.0
3/28/1991	629.00	-9.0	-9.0
4/23/1991	310.00	-9.0	-9.0
09/05/91	503.00	-9.0	-9.0
9/6/1991	343.00	-9.0	-9.0
9/7/1991	317.00	-9.0	-9.0
9/9/1991	438.00	-9.0	-9.0
9/10/1991	430.00	-9.0	-9.0
6/23/1992	130.00	-9.0	-9.0
6/24/1992	140.00	-9.0	-9.0
6/25/1992	140.00	-9.0	-9.0
07/23/92	-9.00		
9/20/1992	-9.00		
10/14/1992	-9.00	-9.0	-9.0
10/15/1992	607.00	-9.0	-9.0
7/20/1993	269.00	-9.0	-9.0
7/21/1993	259.00	-9.0	-9.0
11/2/1993	-9.00	-9.0	-9.0
3/16/1994	609.00	-9.0	-9.0
6/30/1994	323.00	-9.0	-9.0
9/29/1994	506	190.0	7.7
10/12/1994	-9.00		
11/9/94	0.00	0.0	0.0
11/9/1994	2.00		
12/13/1994	558		
1/18/1995	616		
2/15/1995			
3/1/1995	688		
3/15/1995	560		
4/6/1995	382		
4/12/1995	-9.00	-9.0	12.0
4/12/1995	436		
4/19/1995	454		
5/3/1995	72		
5/10/1995	422		
5/22/1995	240.00		
5/31/1995	234.00		
6/7/1995	152.00		
6/14/1995	324.00		
6/21/1995	-9.00	-9.0	-9.0
6/21/1995	80.00		
6/28/1995	16.00		
7/5/1995	170.00		

Jan. Hardness	Feb Hardness	Mar Hardness	Apr Hardness	May Hardness
616	635	629	310	72
666	616	609	436	422
656	616	688	454	240
		560	372	234
			288	224
			428	114
				80
				34

COLOR CODE:		1991	1992
		Average of same day r	
		Calculated hardness	

Date	Value	Col3	Col4	Notes
7/12/1995	92.00			
7/19/1995	120.00			
8/2/1995	316.00			
8/16/1995	300			
9/6/1995	-9.00	-9.0	-9.0	
9/13/1995	152			
10/11/1995	546			
11/15/1995	130			
11/29/1995	-9.00	-9.0	-9.0	
12/13/1995	634			
1/16/1996	291.15	250.0	10.0	Use calculated hardness
1/17/1996	656			
2/14/1996	616.00			also quite high
3/13/1996	800.00	Didn't use		ws
3/20/1996	1460.00	Didn't use		ws
4/3/1996	372.00			
4/9/1996		-9.0	-9.0	
4/10/1996	288.00			
4/17/1996	428.00			
5/1/1996	224.00			
5/8/1996	114.00			
5/15/1996	80.00			
5/21/1996	-9.00	-9.0	-9.0	
5/29/1996	34.00			
6/5/1996	152.00			
6/12/1996	200.00			
06/18/96	182.60	-9.0	-9.0	
6/19/1996	182.00			
6/26/1996	230.00			
7/3/1996	270.00			
7/10/1996	284.00			
7/12/1996	338.00			
7/16/1996				
8/7/1996	480.00			
8/14/1996				
08/14/96	550.00	-9.0	-9.0	
8/21/1996	386.00			
9/18/1996	456.00			
10/1/1996	439.00	162.6		
10/16/1996	406.00			
10/18/96	466.00	-9.0	-9.0	
11/07/96	496.00	-9.0	-9.0	
11/13/1996	384.00			
11/19/96		171.2	8.7	
12/13/96	513.00	-9.0	-9.0	
12/18/1996	528.00			
1/7/1997	-9.00	-9.0	-9.0	

Date		
01/09/97	176.3	8.9
1/15/1997	546.00	
01/30/97	179.9	8.5
02/05/97	536.00 -9.0	-9.0
2/12/1997	540.00	
02/25/97	168.7	8.4
3/5/1997		
3/12/1997	448.00	
3/19/1997	376.00	
03/25/97	115.8	6.0
4/2/1997	364.00	
04/11/97	480.00 -9.0	-9.0
4/16/1997	-9.00	
04/28/97	81.5	5.0
4/30/1997	280.00	
5/7/1997		
05/14/97	30.4	2.5
5/21/1997	110.00	
05/21/97	29.6	2.3
5/28/1997	186.00	
05/29/97	45.9	3.2
6/4/1997	60.00	
06/05/97	21.0	1.8
06/10/97	89.00 -9.0	-9.0
6/11/1997	82.0	
6/11/1997	0.0	
06/11/97	29.7	2.3
06/17/97	27.6	2.1
6/18/1997	84.0	
6/18/1997	0.0	
6/25/1997	112.0	
6/25/1997	2.0	
06/25/97	31.9	2.4
7/2/1997	160.0	
7/2/1997	2.0	
07/02/97	39.4	2.8
7/9/1997		
07/15/97	61.3	3.9
7/16/1997	272.0	
7/16/1997	2.0	
07/29/97	72.0	4.6
8/13/1997	292.0 -9.0	-9.0
08/13/97	281.00 -9.0	-9.0
08/13/97	89.9	5.4
08/26/97		
08/26/97		
08/26/97		

Date		
08/29/97	135.0	6.7
9/11/1997		
9/11/97	242.0-9.0	-9.0
9/17/1997	346.0-9.0	-9.0
09/25/97	83.1	5.0
10/08/97	396.00-9.0	-9.0
10/15/1997	276.0-9.0	-9.0
10/22/97	106.2	5.7
11/12/1997		
11/12/1997	260.0-9.0	-9.0
11/26/97	163.4	8.0
12/03/97	538.00-9.0	-9.0
12/17/1997	492.0-9.0	-9.0
12/23/97	160.7	8.5
1/7/1998		
1/14/1998	688.0-9.0	-9.0
02/04/98	588.00-9.0	-9.0
2/11/1998	516.0-9.0	-9.0
02/12/98	464 171.0	8.9
3/4/1998	604.0-9.0	-9.0
3/5/1998		
03/16/98	496 183.9	8.8
3/18/1998	556.0-9.0	-9.0
4/1/1998	474.0-9.0	-9.0
04/08/98	579	
4/15/1998	464.0-9.0	-9.0
04/23/98	319 117.2	6.3
4/29/1998	282.0-9.0	-9.0
5/5/1998	170.0-9.0	-9.0
05/06/98	187 68.1	4.1
5/7/1998		
5/13/1998	152.0-9.0	-9.0
5/27/1998	152	
6/3/1998	160.0-9.0	-9.0
6/10/1998	156.0-9.0	-9.0
06/10/98	161	
6/17/1998	200.0-9.0	-9.0
6/24/1998	117.0-9.0	-9.0
7/1/1998	-9.00-9.0	-9.0
7/8/1998	176.0-9.0	-9.0
7/15/1998	214.0-9.0	-9.0
7/22/1998	254.0-9.0	-9.0
08/05/98	398	
8/26/1998	434.0-9.0	-9.0
9/2/1998	432 160.0	7.8
9/9/1998	-9.00-9.0	-9.0
9/16/1998	456.0-9.0	-9.0

Jan. Hardness	Feb Hardness	Mar Hardness	Apr Hardness	May Hardness
688	588	604	474	170
516	516	496	579	187
588	464	556	464	152
604	631	490	319	152
564	471	516	282	105
	550	274	448	131
	670	580	493	151
	572		250	
709		463		
			540	
			428	

COLOR CODE: 1998   1999

1999 data when CC no
Average of same day r
Calculated hardness
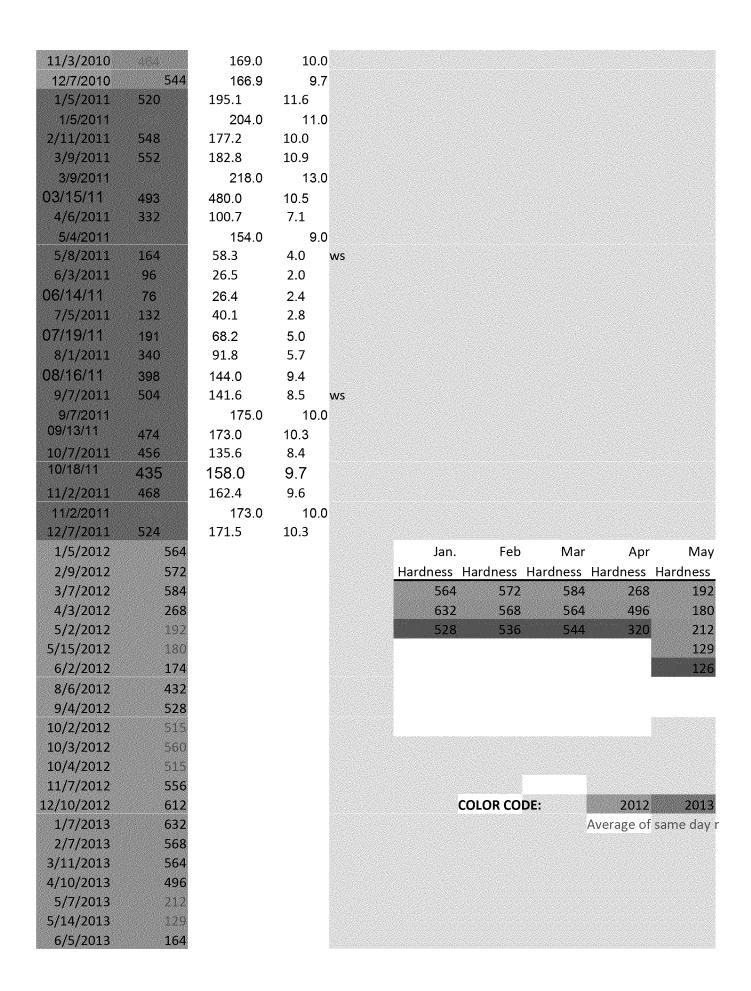
Date	Value	Value2	Value3
09/30/98	415	153.3	7.8
10/07/98	497		
10/14/1998	572.0	-9.0	-9.0
11/3/1998			
11/03/98	466	172.2	8.7
11/18/1998	444.0	-9.0	-9.0
1/6/1999			
1/6/1999	-9.00	-9.0	-9.0
1/13/1999	516.0	-9.0	-9.0
02/04/99	631		
02/09/99	471	173.9	8.8
2/24/1999	550.0	-9.0	-9.0
3/3/1999	-9.00	-9.0	-9.0
3/17/1999	490.0	-9.0	-9.0
4/1/1999	448.0	-9.0	-9.0
04/07/99	493		
4/21/1999	250.0	-9.0	-9.0
04/29/99	348	128.6	6.4
5/6/1999	-9.00	-9.0	-9.0
05/26/99	105	37.4	2.8
06/09/99	81		
06/09/99	79	28.4	2.1
6/23/1999	81.7	29.1	2.2
7/7/1999	133		
7/15/1999	148	53.0	3.7
7/29/1999	161	56.8	4.6
8/4/1999	<5		
8/4/99			
08/17/99	209	76.2	4.6
9/1/1999	<5		
9/13/1999	320.0	76.7	5.6
10/06/99	419		
10/14/1999	528.0	119.9	6.7
11/3/99	<5		
11/17/1999	530.0	137.8	7.9
12/1/99	579		
12/15/1999	576.0	143.8	8.2
1/5/00	587.6		
1/12/2000	604.0	179.6	9.7
2/2/00	670		
2/28/2000	572.0	173.3	9.4
3/1/00	515.6		
3/15/2000	274.0	184.3	10.0
4/5/00	540		
5/3/00	131.4		
6/7/00	142		
7/5/00	378.4		

Date			
8/2/00	393		
9/6/00	362.5		
10/4/00	524		
11/1/00	432.5		
12/6/00	543		
1/3/01	564.3		
2/6/01	709		
3/14/01	555	220.0	9.2
4/4/01	428		
5/2/01	150.9		
6/6/01	113		
7/6/01	229.1		
8/1/01	324		
9/5/01	406.3		
10/3/01	486		
11/7/01	485.7	18.0	8.7
12/5/01	530		
1/2/02	594.6		
2/6/02	564		
3/6/02			
4/3/02	260		
5/1/02	233		
6/5/02			9.1
6/27/2002	430.0	146.6	7.4
7/3/02			
7/17/2002	528.0	109.6	8.3
8/7/02	472		
8/14/2002	520.0	166.5	8.2
9/4/02		196.0	
9/18/2002	440.0	126.9	8.2
10/2/02	435		
10/25/2002	440.0	127.5	6.7
11/6/02			
11/12/2002	456	171.9	5.9
12/4/02	529		
12/8/2002	882	150.7	6.3
1/8/2003	540	158.2	7.3
1/9/03			
2/1/2003	520	178.9	10.1
2/5/03	490		
3/3/03	540.0	136.0	8.6
3/9/2003	540	144.2	8.6
4/24/2003	342	100.2	6.7
5/7/2003			
5/7/2003	258	74.6	5.2
6/2/2003	88	26.3	2.2
7/2/2003			
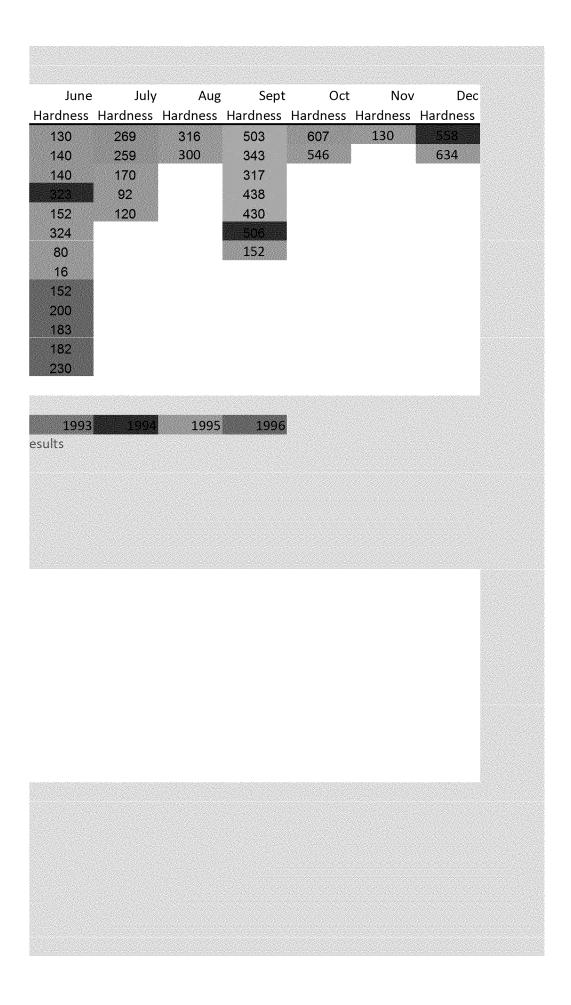
7/2/2003	270.0	75.5	5.7
8/14/2003	382.0	103.6	7.1
9/11/2003			
9/11/2003	354.0	78.8	6.4
10/4/2003	392.0	94.4	6.8
11/6/03			
12/29/2003	536.0	0.0	0.0
1/16/2004	246.0	138.5	8.6
2/13/2004	528.0	143.8	8.3
3/3/04			
3/3/2004	540	136.0	8.6
4/16/2004	288.0	84.0	6.9
5/5/04			
5/5/2004	140.0	39.9	2.9
5/28/2004	92.0	28.2	2.3
6/17/2004	184.0	38.2	3.3
7/7/04			
7/7/2004	216.0	70.5	5.6
8/19/2004	420.0	128.8	10.0
9/1/04			
9/15/2004	416.0	137.1	11.0
10/14/04	380.0	94.2	6.9
11/10/04		154.0	10.0
11/10/2004	406.0	112.5	7.0
12/8/2004	466.0	126.1	8.2
1/20/2005	488	106.8	8.9
2/15/05	502	102.6	8.7
3/2/2005		172	11
3/13/2005	414	89.7	7.9
4/9/05	324	102.4	6.7
5/4/2005		115	8
5/4/05	196	93.9	6.4
6/9/2005	152	27.8	2.6
7/6/2005		52	4
07/06/2005		52.0	4.0
7/6/2005	152	46.4	3.9
8/10/05	400	61.0	4.4
9/14/05	380	148.2	9.7
09/15/2005		154.0	10.0
10/13/05	416	131.2	9.4
11/2/2005			10.0
11/2/05	448	139.8	9.0
12/20/05	600	163.6	10.8
1/6/06	532	170.1	10.9
01/06/2006		186.0	11.0
2/8/06	454	**177.4**	**11.4**
3/7/06	428	~~142.3~~	~~6.4~~
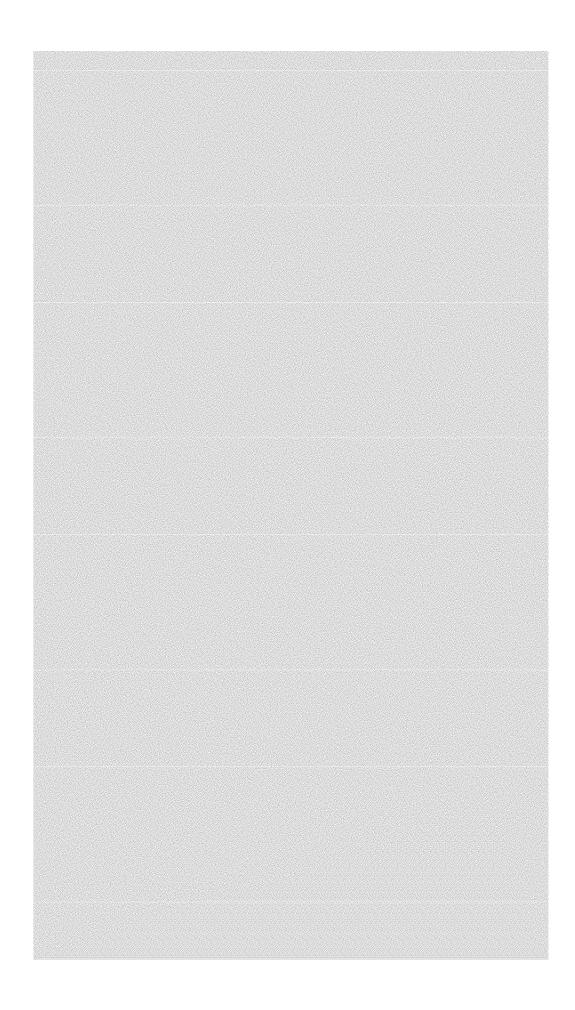
Date			
03/15/2006		159.0	9.0
3/15/2006	452	162.7	11.5
4/5/06	-9		
4/5/2006	427	142.3	6.4
05/10/2006		57.0	4.0
5/10/2006	172	60.2	5.0
6/6/06	98	34.4	2.8
7/12/06	332	~~95.8~~	~~7.7~~
07/12/2006		99.0	7.0
7/12/2006	332	97.1	7.7
8/2/2006	332	112.9	8.1
09/06/2006		152.0	9.0
9/6/2006	480	~~64.2~~	~~9.4~~
10/11/2006	216	65.5	5.7
11/01/2006		113.0	8.9
11/1/2006	384	119.3	8.9
12/5/2006	524	162.0	11.1
1/11/2007	570	177.8	11.9
2/6/2007	510	181.8	12.0
03/07/2007	536	196.5	11.0
3/7/2007	570	196.5	12.6
4/2/2007	436	138.4	9.4
05/11/2007	125	45.0	3.0
5/11/2007	166	45.1	3.0
6/5/2007	100	31.3	2.2
07/11/2007	272	97.3	7.0
7/11/2007	260	87.4	5.4
8/6/2007	256	93.6	4.0
09/05/2007	412	150.0	9.0
10/25/2007	340	124.8	9.2
11/07/2007	407	148.0	9.0
11/7/2007	448	69.1	4.5
1/2/2008	544	201.0	10.0
1/2/2008	576	197.8	8.5
3/12/2008	504	185.0	10.0
3/12/2008	592	182.9	12.3
4/10/2008	504	157.6	11.4
5/7/2008	191	68.0	5.0
5/7/2008	288	53.3	4.4
6/3/2008	88	23.2	2.1
7/9/2008	186	66.0	5.0
7/9/2008	160	52.3	3.9
8/5/2008	338	103.9	6.8
9/3/2008	459	167.0	10.0
9/3/2008	440	138.7	8.7
10/6/2008	516	157.1	10.0
11/7/2008		-9.0	-9.0

Jan. Hardness	Feb Hardness	Mar Hardness	Apr Hardness	May Hardness
570	510	553	436	145
560	524	548	504	239
585	571	545	488	44
538	548	581	572	81
			556	302	212
		541	332	164
		576		
	493			

COLOR CODE: | | | 2007 | 2008
Average of same day r
Calculated hardness
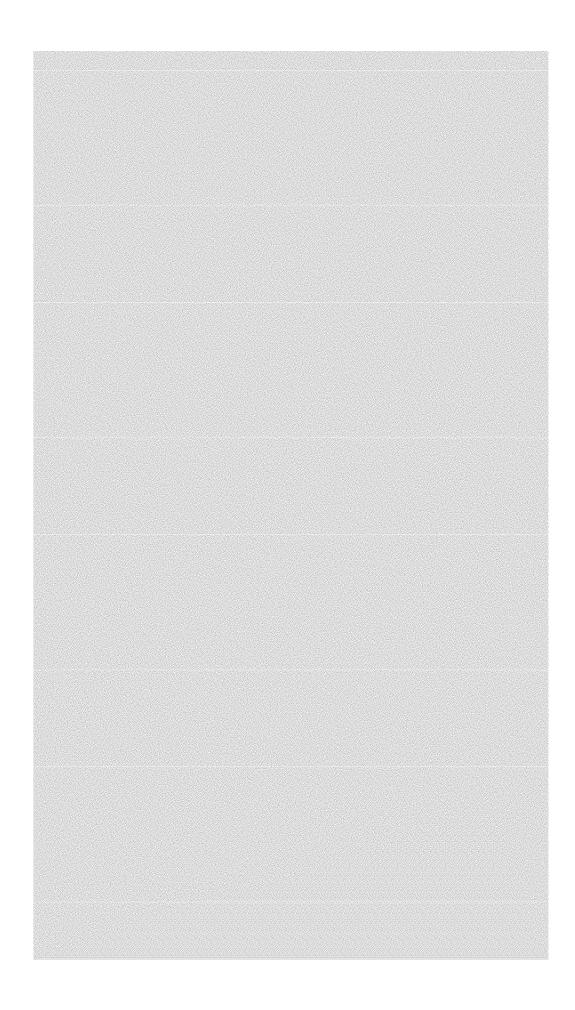
Date				
11/7/2008	508	168.2	9.9	
12/3/2008	536	174.5	10.6	
1/8/2009	539	195.0	11.0	
~~1/8/2009~~	~~50~~	86.9	7.2	
2/6/2009	524	181.6	11.1	
3/3/2009	545	200.0	11.0	
3/4/2009	518	189.0	11.0	
3/4/2009	488	169.1	10.4	
4/6/2009	488	177.6	9.9	
5/13/2009	71	25.0	2.0	
5/13/2009	86	26.5	2.2	
5/19/2009	81	28.6	2.4	
6/2/2009	132	46.6	3.5	
6/16/2009	189	67.6	4.8	
7/8/2009	247	89.0	6.0	
7/8/2009	274	81.4	5.0	
7/14/2009	294	106.0	7.0	
8/12/2009	464	158.9	9.9	
8/18/2009	468	170.0	10.4	
9/16/2009	461	164.0	10.0	
9/16/2009	456	154.7	10.6	
9/22/2009	470	171.0	10.4	
10/5/2009	484	160.5	10.7	
11/4/2009	518	187.0	11.0	
~~11/4/2009~~		~~187.0~~	~~11.0~~	
11/5/2009	458	11.6	1.8	
11/17/2009	495	180.0	11.0	
~~12/1/2009~~	~~548~~	~~22.3~~	~~3.5~~	ws
2/17/2010	571	209.0	11.9	
3/2/2010	556	201.1	12.4	
3/17/2010	541	198.0	11.2	
4/6/2010	572	194.6	11.3	ws
4/13/2010	302	109.0	7.1	
5/5/2010	220	77.9	5.1	
5/5/2010	203	73.0	5.0	ws
6/2/2010	100	31.2	2.5	
6/2/2010	88	31.0	2.5	
7/8/2010	332	104.0	6.9	
7/8/2010	311	113.0	7.0	
7/13/2010	345	125.0	8.0	
8/10/2010	360	125.6	8.7	
9/9/2010	472	151.2	9.4	
9/9/2010	434	159.0	9.0	ws
9/14/2010		186.0	10.9	
10/4/2010	504	156.5	9.3	
11/2/2010	495	179.0	11.5	
11/3/2010	512	155.0	9.5	

Date	Hardness			
11/3/2010	464	169.0	10.0	
12/7/2010	544	166.9	9.7	
1/5/2011	520	195.1	11.6	
1/5/2011		204.0	11.0	
2/11/2011	548	177.2	10.0	
3/9/2011	552	182.8	10.9	
3/9/2011		218.0	13.0	
03/15/11	493	480.0	10.5	
4/6/2011	332	100.7	7.1	
5/4/2011		154.0	9.0	
5/8/2011	164	58.3	4.0	ws
6/3/2011	96	26.5	2.0	
06/14/11	76	26.4	2.4	
7/5/2011	132	40.1	2.8	
07/19/11	191	68.2	5.0	
8/1/2011	340	91.8	5.7	
08/16/11	398	144.0	9.4	
9/7/2011	504	141.6	8.5	ws
9/7/2011		175.0	10.0	
09/13/11	474	173.0	10.3	
10/7/2011	456	135.6	8.4	
10/18/11	435	158.0	9.7	
11/2/2011	468	162.4	9.6	
11/2/2011		173.0	10.0	
12/7/2011	524	171.5	10.3	
1/5/2012	564			
2/9/2012	572			
3/7/2012	584			
4/3/2012	268			
5/2/2012	192			
5/15/2012	180			
6/2/2012	174			
8/6/2012	432			
9/4/2012	528			
10/2/2012	515			
10/3/2012	560			
10/4/2012	515			
11/7/2012	556			
12/10/2012	612			
1/7/2013	632			
2/7/2013	568			
3/11/2013	564			
4/10/2013	496			
5/7/2013	212			
5/14/2013	129			
6/5/2013	164			

Jan. Hardness	Feb Hardness	Mar Hardness	Apr Hardness	May Hardness
564	572	584	268	192
632	568	564	496	180
528	536	544	320	212
				129
				126

COLOR CODE: 2012 2013

Average of same day r

Date	Value
7/7/2013	416
8/4/2013	358
9/10/2013	390
10/2/2013	292
11/8/2013	416
12/13/2013	480
1/8/2014	528
2/7/2014	536
3/5/2014	544
4/10/2014	320
5/6/2014	126
6/6/2014	78
7/1/2014	168
8/1/2014	336
9/5/2014	
9/23/2014	rain event, outlier, didn't use
10/2/2014	288
11/7/2014	464
12/5/2014	500

June Hardness	July Hardness	Aug Hardness	Sept Hardness	Oct Hardness	Nov Hardness	Dec Hardness
130	269	316	503	607	130	558
140	259	300	343	546		634
140	170		317			
323	92		438			
152	120		430			
324			506			
80			152			
16						
152						
200						
183						
182						
230						

1993	1994	1995	1996

esults

June Hardness	July Hardness	Aug Hardness	Sept Hardness	Oct Hardness	Nov Hardness	Dec Hardness
160	176	398	432	497	466	579
156	214	434	456	572	444	576
161	254	393	415	524	432	543
200	133	324	362	486	486	530
117	148		406			
80	161					
82	378					
142	229					
113						

2000	2001

t treated is not included (Aug-Nov)

esults

June Hardness	July Hardness	Aug Hardness	Sept Hardness	Oct Hardness	Nov Hardness	Dec Hardness
100	266	256	412	340	508	427
88	173	338	449	516	515	536
132	261	464	464	484	458	548
189	289	468	470	504	495	544
94	322	360	453	456	495	524
96	132	340	491	435	488	
76	191	398	474		471	

2009　2010　2011

esults

June Hardness	July Hardness	Aug Hardness	Sept Hardness	Oct Hardness	Nov Hardness	Dec Hardness
174	416	432	528	515	556	612
164	168	358	390	560	416	480
78		336	468	515	464	500
				292		
				288		

2014

esults

	Jan.	Feb	Mar	Apr	May	June	July
Average Hardness 1991-mid 1996	646	622	622	381	178	173	182

Average Hardness 1998-2001	Jan.	Feb	Mar	Apr	May	June	July
	592	575	503	431	150	135	212
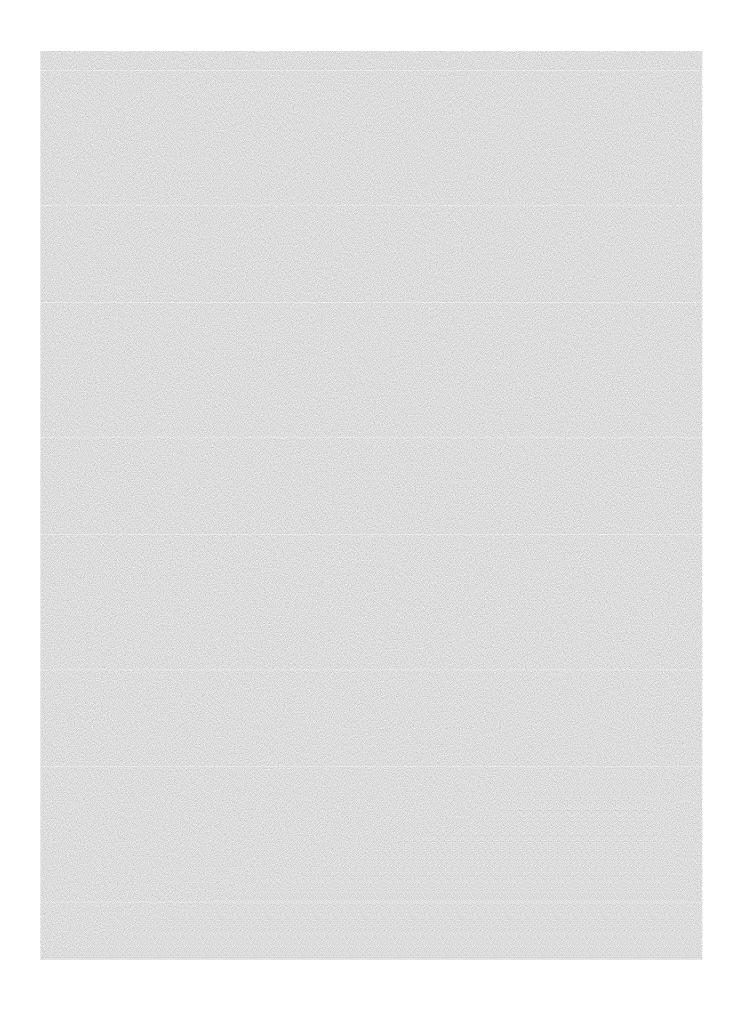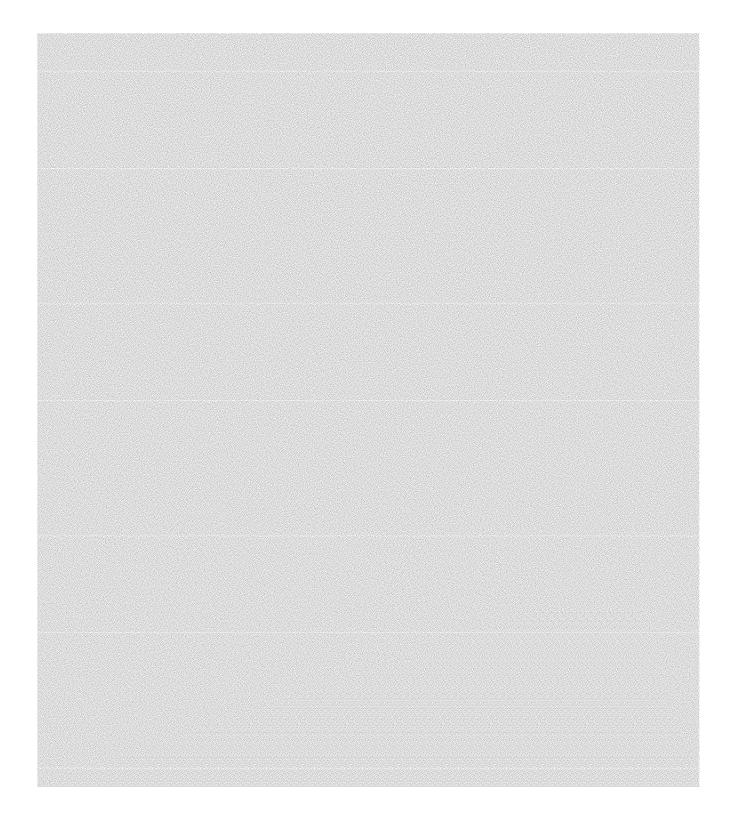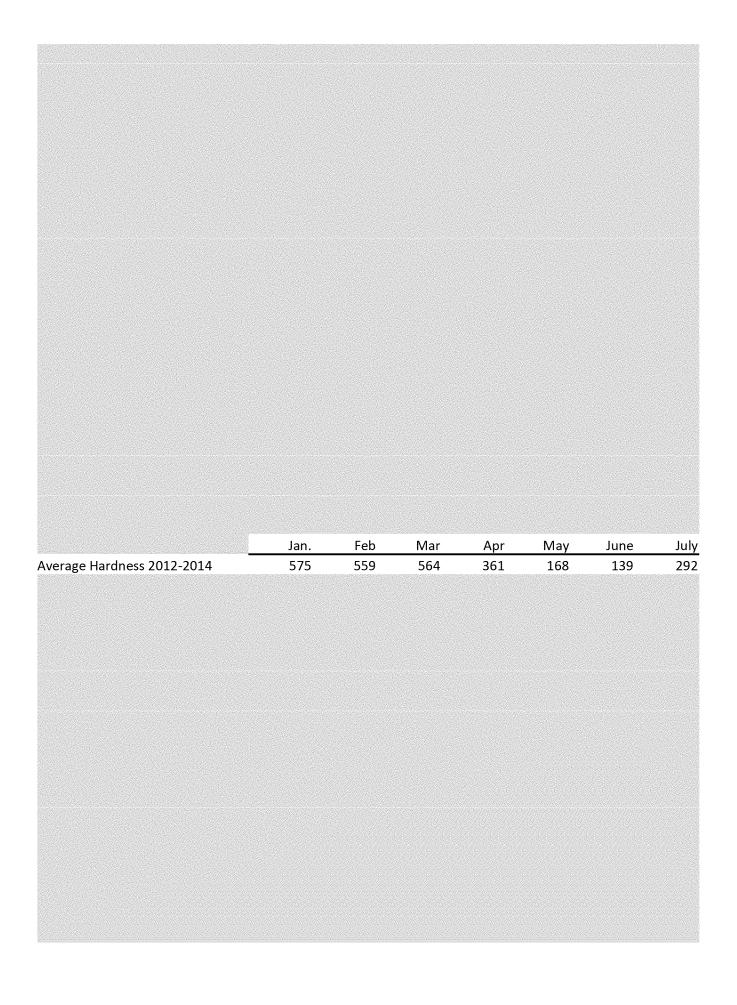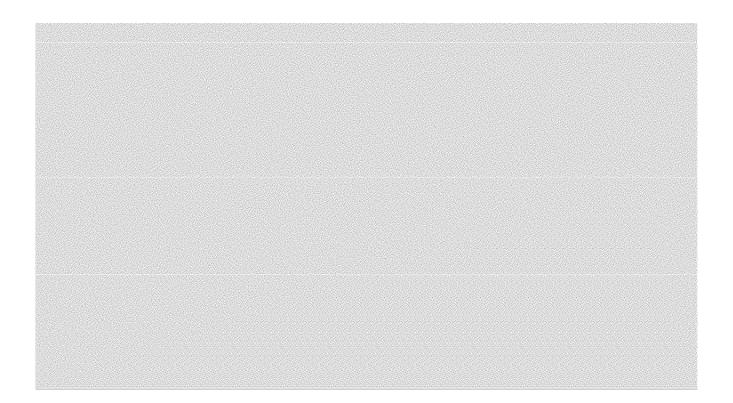
	Jan.	Feb	Mar	Apr	May	June	July
Average Hardness 2007-2011	550	538	539	439	153	111	234

	Jan.	Feb	Mar	Apr	May	June	July
Average Hardness 2012-2014	575	559	564	361	168	139	292

Aug	Sept	Oct	Nov	Dec
308	384	577	130	596
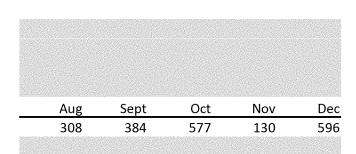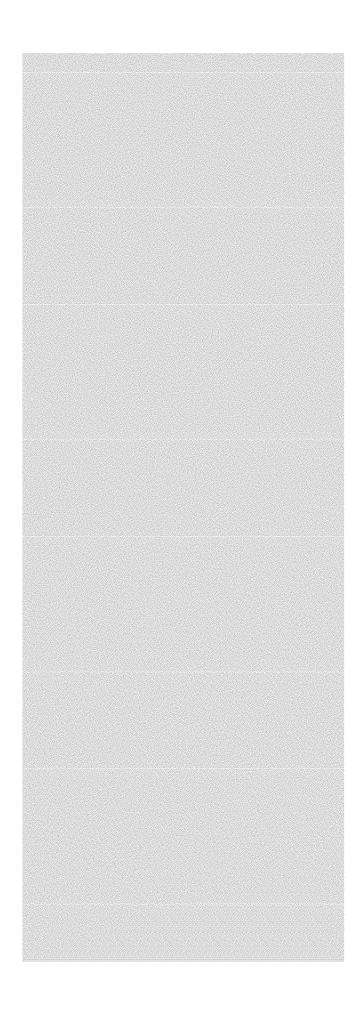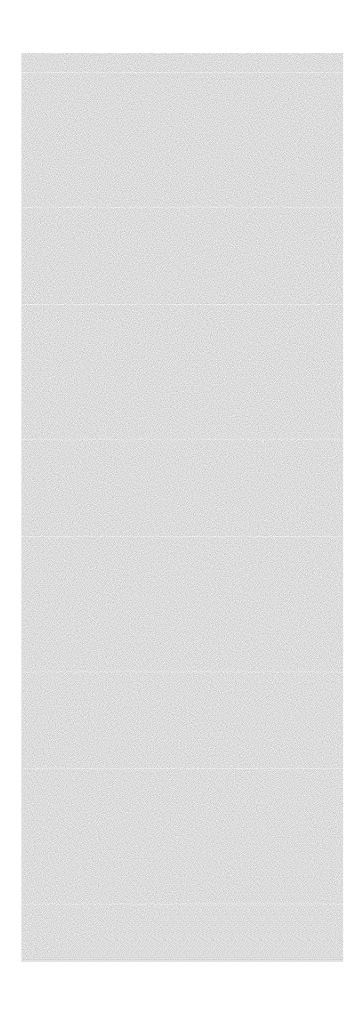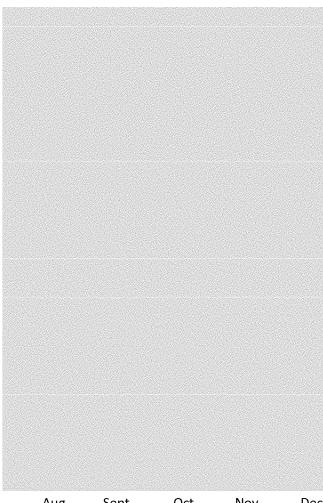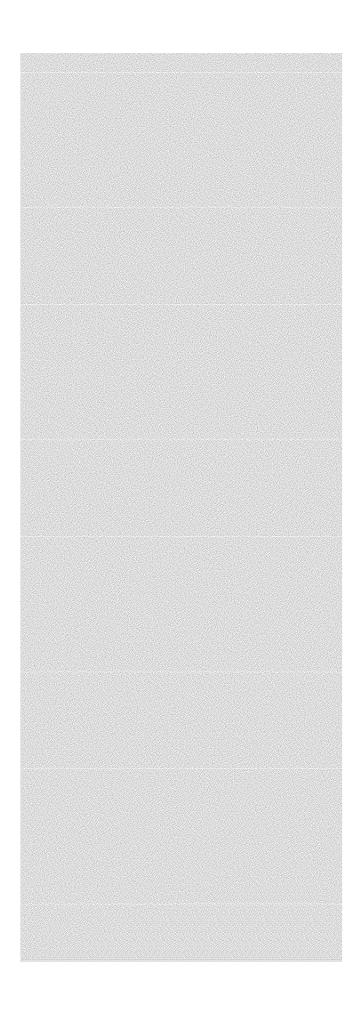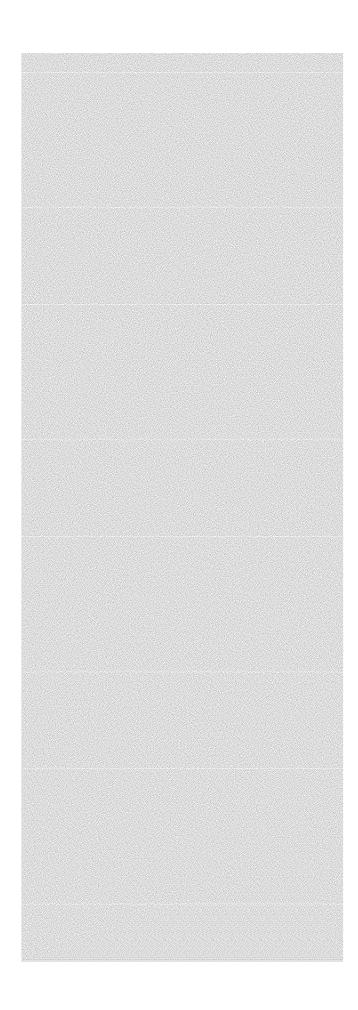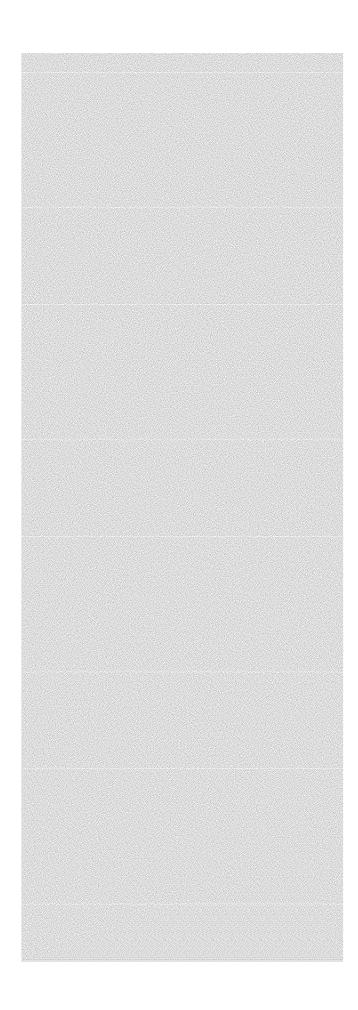
Aug	Sept	Oct	Nov	Dec
387	414	520	457	557
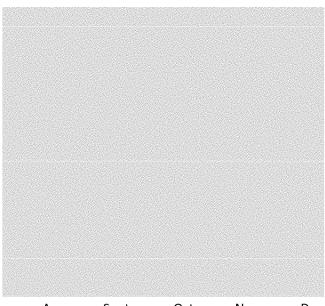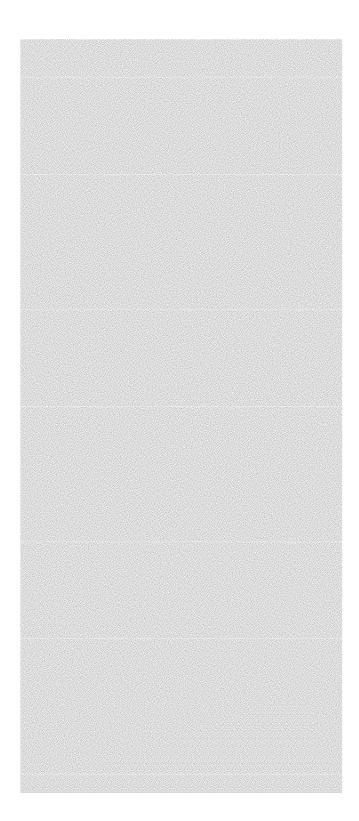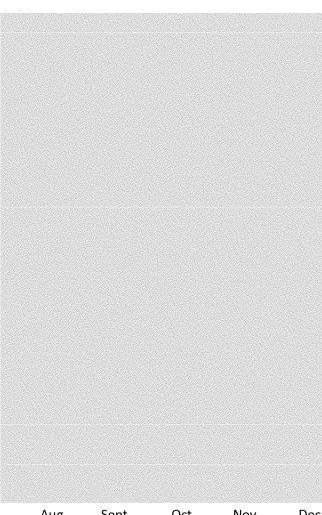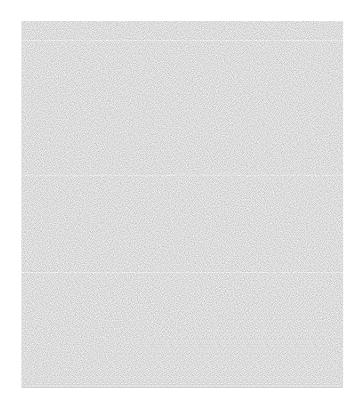
Aug	Sept	Oct	Nov	Dec
375	458	456	490	516

Aug	Sept	Oct	Nov	Dec
375	462	434	479	531

00060, Discharge, cubic feet per second,						
YEAR	onthly mean in ft3/s (Calculation Period: 1991-10-01 -> 2014-10-31) Period-of-record for statistical calculation restricted by user					
	Jan	Feb	Mar	Apr	May	Jun
1991						
1992	8.63	10.2	13.7	35.2	93.9	95.1
1993	9.63	9.91	13.4	25.7	133.2	190
1994						
1995	15.8	17.8	22.7	24.1	57.2	263
1996	15.7	16.1	16.2	35.4	144.8	85.2
1997	13.5	13.4	18.8	26	104.6	178.6
1998	14.1	13.6	15.3	22.6	99.7	113.1
1999	12.9	13.5	16.6	23	79	167.9
2000	11.8	10	12.7	42.1	118.7	65.3
2001	13.2	11.9	13.3	26.9	133.9	103.7
2002	8.27	8.45	13.6	31.9	37.3	24.6
2003	9.3	8.36	12.3	29	108.2	84.9
2004	10.4	9.9	21.1	28	118.3	106.6
2005	13.3	12.6	13.4	33.7	157.6	143.9
2006	12.9	12.5	15	42.4	130.6	83.1
2007	13.8	13.5	19.9	28.7	119	124.4
2008	13.9	13.3	14.2	28.9	104.3	210.9
2009	14	13.2	20.4	47.7	196.3	82.2
2010	11.5	11.4	11.4	37.9	106.3	115.5
2011	12.4	12.4	12.2	23.7	65	255.4
2012	14.8	14.7	22.5	50.4	72.4	39.3
2013	10.7	11.9	12.6	26.3	94.5	46.1
2014	14.8	14.3	16	40.4	116.6	154.7
Mean of monthly Discharge	13	12	16	32	109	124
** No Incomplete data have been used for statistical calculation						

	Jan	Feb	Mar	Apr	May	Jun
Ave 2012-2014	13.4	13.6	17.0	39.0	94.5	80.0
Ave 2007-2011	13.1	12.8	15.6	33.4	118.2	157.7
Ave 1998 - 2001	13.0	12.3	14.5	28.7	107.8	112.5
Ave 1991 - mid 1996	12.4	13.5	16.5	30.1	107.3	158.3

Jul	Aug	Sep	Oct	Nov	Dec
			14	13.3	10.6
46.8	23	20.5	15.5	14.2	11
64.8	26.7	21.7			
			21.7	17.8	15.6
148.7	45.9	24.4	18.4	16.7	14
29.3	18.1	17.5	20.5	17.1	14.8
73.5	31.5	28.9	28.9	16.9	14.5
60.2	21.1	17.7	19.2	19.8	15.4
80.2	50.7	34.6	17.9	14.4	14.2
21	17.6	17.8	17.5	19	14
34.3	24.3	17.4	14.7	12.7	9.26
13.2	12.9	16.9	17.6	14.8	9.51
21.5	16.2	21.1	13.8	12.6	11.7
35	15.6	29.1	21.2	17.1	13.5
56.6	26.5	18.6	22.5	17.5	13.9
30.6	25.5	21.5	62.6	33.6	15.1
36.5	26.1	26.5	25.2	18.5	15.5
71.5	26.4	20	18.3	16.8	15.5
33.9	16.7	16.1	16	14.1	12.5
25.6	26	16	15.8	13.4	12.4
76	22.7	18.8	19.3	16.1	14.7
19.5	16.8	15.1	14.1	12.1	10.5
19.3	22.6	40.8	24.5	19	15.9
46	23	25.9	28.9		
47	24	22	21	17	13

28.3	20.8	27.3	22.5	15.6	13.2	11740	0.78443
48.7	23.6	19.5	18.9	15.8	14.1	14966	
48.9	28.4	21.9	17.3	16.5	13.2	13267	
86.8	31.9	22.2	17.4	15.5	12.8	15998	

DATE

DATE	PH	pH-lab
2/11/1991	4.40	
3/28/1991	4.16	
4/23/1991	3.70	
09/05/91	4.58	
9/6/1991	4.44	
9/7/1991	4.36	
9/9/1991	4.65	
9/10/1991	4.08	
6/23/1992	5.00	
6/24/1992	5.10	
6/25/1992	5.10	
07/23/92	4.13	
9/20/1992	4.86	
10/14/1992	4.60	
10/15/1992	5.10	
7/20/1993	4.40	
7/21/1993	4.59	
11/2/1993	3.83	
3/16/1994	4.02	
6/30/1994	4.73	
9/29/1994	3.7	
10/12/1994	4.19	
11/9/94	5.52	
11/9/1994	4.41	
12/13/1994	4.32	
1/18/1995	4.74	
2/15/1995	4.24	
3/1/1995	4.09	
3/15/1995	4.12	
4/6/1995	3.89	
4/12/1995	4.47	
4/12/1995	4.11	
4/19/1995	3.73	
5/3/1995	3.95	
5/10/1995	4.22	
5/22/1995	3.97	
5/31/1995	4.41	
6/7/1995	4.54	
6/14/1995	5.09	
6/21/1995	5.60	
6/21/1995	5.26	
6/28/1995	5.44	
7/5/1995	5.10	

Jan. pH	Feb pH	Mar pH	Apr pH	May pH	June pH
4.74	4.40	4.16	3.70	3.95	5.00
4.04	4.24	4.02	3.89	4.22	5.10
4.36	4.00	4.09	4.29	3.97	5.10
		4.12	3.73	4.41	4.73
		4.00	3.85	4.10	4.54
		3.95	4.67	4.00	5.09
			4.09	4.77	5.43
			4.58	5.13	5.44
				4.77	4.76
					5.39
					4.51
					5.06
					4.67

COLOR CODE: 1991 1992 1993

All red font are averages of same day samples

Date	Value
7/12/1995	4.88
7/19/1995	5.54
8/2/1995	6.21
8/16/1995	4.78
9/6/1995	4.20
9/13/1995	4.03
10/11/1995	4.05
11/15/1995	4.31
11/29/1995	4.37
12/13/1995	4
1/16/1996	4.04
1/17/1996	4.36
2/14/1996	4.00
3/13/1996	4.00
3/20/1996	3.95
4/3/1996	3.85
4/9/1996	4.67
4/10/1996	4.09
4/17/1996	4.58
5/1/1996	4.10
5/8/1996	4.00
5/15/1996	4.77
5/21/1996	5.13
5/29/1996	4.77
6/5/1996	4.76
6/12/1996	5.39
06/18/96	4.51
6/19/1996	5.06
6/26/1996	4.67
7/3/1996	4.21
7/10/1996	3.90
7/12/1996	3.79
7/16/1996	4.25
8/7/1996	3.64
8/14/1996	3.53
08/14/96	3.59
8/21/1996	3.51
9/18/1996	4.36
10/1/1996	4.10
10/16/1996	4.18
10/18/96	4.44
11/07/96	4.04
11/13/1996	3.88
11/19/96	3.96
12/13/96	3.44
12/18/1996	3.97
1/7/1997	3.29
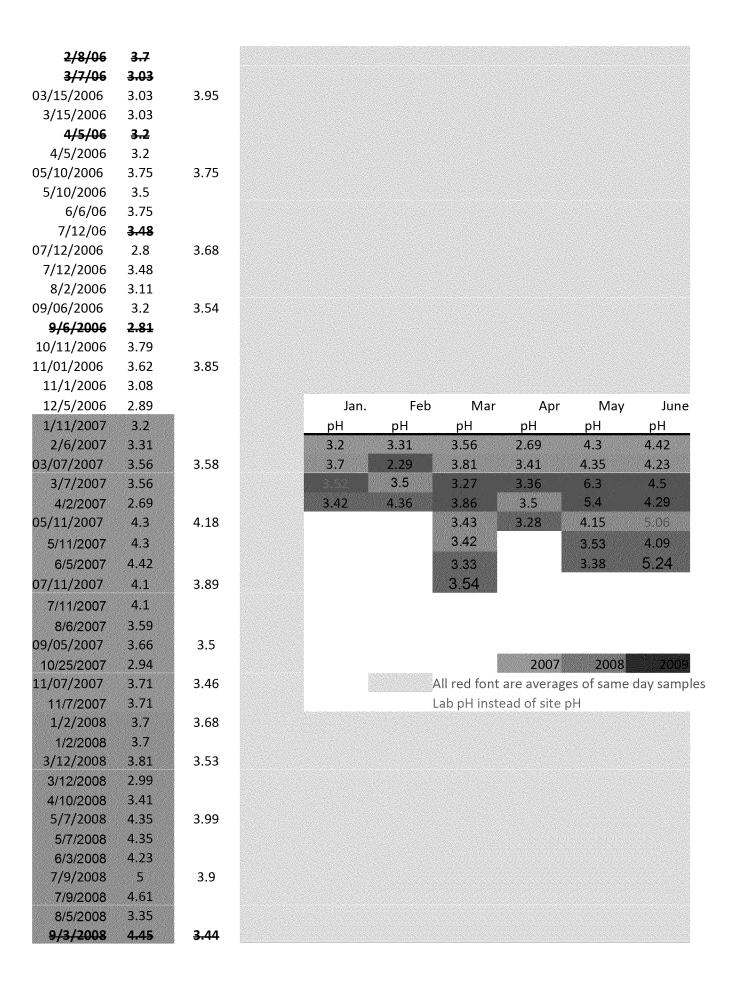
Date	Value	
01/09/97	4.07	
1/15/1997	4.00	
01/30/97	3.57	
02/05/97	3.02	
2/12/1997	3.80	
02/25/97	3.65	
3/5/1997	3.75	
3/12/1997	3.87	
3/19/1997	3.79	
03/25/97	3.63	
4/2/1997	4.21	
04/11/97	3.31	
4/16/1997	3.91	
04/28/97	4.14	
4/30/1997	4.09	
5/7/1997	3.91	
05/14/97	4.21	
5/21/1997	4.53	
05/21/97	3.80	
5/28/1997	4.28	
05/29/97	4.28	
6/4/1997	4.74	
06/05/97	4.39	
06/10/97	3.82	
6/11/1997	4.95	
6/11/1997	4.95	
06/11/97	4.46	
06/17/97	4.63	
6/18/1997	5.50	
6/18/1997	5.50	
6/25/1997	5.36	
6/25/1997	5.36	
06/25/97	4.67	
7/2/1997	5.78	
7/2/1997	5.78	
07/02/97	4.02	
7/9/1997	5.03	
07/15/97	4.53	
7/16/1997	5.26	
7/16/1997	5.26	
07/29/97	4.28	
8/13/1997		-9.00
08/13/97	4.01	
08/13/97	4.19	
08/26/97	3.99	
08/26/97		
08/26/97	3.96	

Date	pH (site)	pH (lab)
08/29/97		
9/11/1997	3.56	
9/11/97		3.98
9/17/1997		-9.00
09/25/97	4.51	
10/08/97	4.21	
10/15/1997		-9.00
10/22/97	3.86	
11/12/1997	4.09	
11/12/1997		-9.00
11/26/97		
12/03/97	3.77	
12/17/1997		-9.00
12/23/97	4.41	
1/7/1998	3.53	
1/14/1998		-9.00
02/04/98	3.25	
2/11/1998		-9.00
02/12/98	3.85	
3/4/1998		-9.00
3/5/1998	3.58	
03/16/98	4.10	
3/18/1998		-9.00
4/1/1998		-9.00
04/08/98	3.32	
4/15/1998		-9.00
04/23/98	4.22	
4/29/1998		-9.00
5/5/1998		-9.00
05/06/98	4.29	
5/7/1998	3.22	
5/13/1998		-9.00
5/27/1998		
6/3/1998		-9.00
6/10/1998		-9.00
06/10/98	4.23	
6/17/1998		-9.00
6/24/1998		-9.00
7/1/1998	5.18	
7/8/1998		-9.00
7/15/1998		-9.00
7/22/1998		-9.00
08/05/98	3.13	
8/26/1998		-9.00
9/2/1998	3.47	
9/9/1998	3.71	
9/16/1998		-9.00

Jan. pH	Feb pH	Mar pH	Apr pH	May pH	June pH
3.65	3.25	3.58	3.32	4.29	4.23
3.78	3.85	4.10	4.22	3.22	4.15
3.89	3.52	3.49	4.64	4.40	4.63
5.06	3.44	4.01	4.14	4.73	4.73
	3.49	3.63	3.81	3.95	4.86
	4.40		3.67	3.83	
	3.89				

COLOR CODE: 1998 1999 2000

All red font are averages of same day samples

Lab pH instead of site pH

09/30/98	3.78		
10/07/98	3.55		
10/14/1998	3.92	3.92	
11/3/1998	3.61		
11/03/98	3.93		
11/18/1998	3.98	3.98	
1/6/1999	3.50		
1/6/1999	3.80		
1/13/1999		-9.00	
02/04/99	3.52		
02/09/99	3.44		
2/24/1999		-9.00	
3/3/1999	3.49		
3/17/1999		-9.00	
4/1/1999		-9.00	
04/07/99	4.64		
4/21/1999		-9.00	
04/29/99	4.14		
5/6/1999	4.40		
05/26/99	4.73		
06/09/99	4.02		
06/09/99	4.28		
6/23/1999	4.63		
07/07/99	4.25		
07/15/99	5.12		
07/29/99	4.68		
8/4/1999	4.37		
8/4/99	4.37		
08/17/99	4.48		
9/1/1999	4.65		
9/13/1999	4.00	4.00	
10/06/99	3.29		
10/14/1999	4.02	4.02	
11/3/99	3.91		
11/17/1999	4.04	4.04	
12/1/99	3.38		
12/15/1999	4.35	4.35	
1/5/00	3.78	4.3	
1/12/2000	3.89	3.89	
2/2/00	3.49		
2/28/2000	4.40	4.40	
3/1/00	4.01	4.2	
3/15/2000		6.03	Lab pH not realistic
4/5/00	3.81		
5/3/00	3.95	4.3	
6/7/00	4.73		
7/5/00	3.7	4	

Date	Value 1	Value 2
8/2/00	3.43	
9/6/00	3.57	3.8
10/4/00	4.27	
11/1/00	3.88	4
12/6/00	4.02	
1/3/01	5.06	4.7
2/6/01	3.89	
3/14/01	3.63	3.8
4/4/01	3.67	
5/2/01	3.83	4.3
6/6/01	4.86	
7/6/01	4.46	5.5
8/1/01	4.02	
9/5/01	3.51	3.84
10/3/01	3.57	
11/7/01	5.34	3.73
12/5/01	4.25	
1/2/02	3.61	3.75
2/6/02	3.86	
3/6/02	3.8	3.74
4/3/02	3.4	
5/1/02	3.88	
6/5/02	7	3.5
6/27/2002		4.50
7/3/02	3.43	3.59
7/17/2002		3.86
8/7/02	4.63	
8/14/2002		4.17
9/4/02	3.52	3.52
9/18/2002		3.69
10/2/02	4.46	
10/25/2002		3.88
11/6/02	3.96	
11/12/2002	4.05	
12/4/02	4.5	
12/8/2002	4.17	
1/8/2003	3.82	
1/9/03	3.49	3.32
2/1/2003	3.35	
2/5/03	3.51	
3/3/03	3.44	
3/9/2003	3.57	
4/24/2003	3.75	
5/7/2003	3.54	3.36
5/7/2003	3.7	
6/2/2003	4.85	
7/2/2003	3.45	3.91

Date	Value 1	Value 2
7/2/2003	3.96	
8/14/2003	3.32	
9/11/2003	3.32	3.6
9/11/2003	3.13	
10/4/2003	3.72	
11/6/03	3.43	3.55
12/29/2003	3.31	
1/16/2004	3.07	
2/13/2004	3.00	
3/3/04	3.44	3.76
3/3/2004	3.44	
4/16/2004	3.45	
5/5/04	3.27	3.97
5/5/2004	3.27	
5/28/2004	4.75	
6/17/2004	4.78	
7/7/04	4.19	4.13
7/7/2004	4.19	
8/19/2004	3.29	
9/1/04	3.46	3.44
9/15/2004	3.17	
10/14/04	2.93	
11/10/04	3.45	
11/10/2004	2.89	
12/8/2004	3.19	
1/20/2005	3.45	
2/15/05	3.08	
3/2/2005		3.41
3/13/2005	3.37	
4/9/05	3.33	
5/4/2005		3.58
5/4/05	3.58	
6/9/2005	4.02	
7/6/2005		4.88
07/06/2005		4.26
7/6/2005	4.71	
8/10/2005	3.65	
9/14/05	3.52	
9/15/2005		**3.52**
09/15/2005		3.60
10/13/05	3.85	
11/2/05	3.55	3.6
11/2/2005		3.55
12/20/05	3.24	
1/6/06	3.57	
01/06/2006	3.57	3.67
2/8/06	**3.7**	

Date	pH	Avg
2/8/06	3.7	
3/7/06	3.03	
03/15/2006	3.03	3.95
3/15/2006	3.03	
4/5/06	3.2	
4/5/2006	3.2	
05/10/2006	3.75	3.75
5/10/2006	3.5	
6/6/06	3.75	
7/12/06	3.48	
07/12/2006	2.8	3.68
7/12/2006	3.48	
8/2/2006	3.11	
09/06/2006	3.2	3.54
9/6/2006	2.81	
10/11/2006	3.79	
11/01/2006	3.62	3.85
11/1/2006	3.08	
12/5/2006	2.89	
1/11/2007	3.2	
2/6/2007	3.31	
03/07/2007	3.56	3.58
3/7/2007	3.56	
4/2/2007	2.69	
05/11/2007	4.3	4.18
5/11/2007	4.3	
6/5/2007	4.42	
07/11/2007	4.1	3.89
7/11/2007	4.1	
8/6/2007	3.59	
09/05/2007	3.66	3.5
10/25/2007	2.94	
11/07/2007	3.71	3.46
11/7/2007	3.71	
1/2/2008	3.7	3.68
1/2/2008	3.7	
3/12/2008	3.81	3.53
3/12/2008	2.99	
4/10/2008	3.41	
5/7/2008	4.35	3.99
5/7/2008	4.35	
6/3/2008	4.23	
7/9/2008	5	3.9
7/9/2008	4.61	
8/5/2008	3.35	
9/3/2008	4.45	3.44

Jan. pH	Feb pH	Mar pH	Apr pH	May pH	June pH
3.2	3.31	3.56	2.69	4.3	4.42
3.7	2.29	3.81	3.41	4.35	4.23
3.62	3.5	3.27	3.36	6.3	4.5
3.42	4.36	3.86	3.5	5.4	4.29
		3.43	3.28	4.15	5.06
		3.42		3.53	4.09
		3.33		3.38	5.24
		3.54			

2007   2008   2009

All red font are averages of same day samples

Lab pH instead of site pH

Date	Value	Average
9/3/2008	4.45	
10/6/2008	3.26	
11/7/2008	3.98	3.59
11/7/2008	3.98	
12/3/2008	3.25	
1/8/2009	3.52	3.52
1/8/2009	7.52	
2/6/2009	2.29	
3/3/2009	3.27	3.57
3/4/2009	3.86	3.5
3/4/2009	3.86	
4/6/2009	3.36	
5/13/2009	6.3	5.09
5/13/2009	6.3	
5/19/2009	5.4	
6/2/2009	4.5	
6/16/2009	4.29	
6/16/2009	4.29	
6/16/2009		
6/16/2009		
7/8/2009	4.75	4.04
7/8/2009	5.13	
7/14/2009	3.95	
7/14/2009	3.95	
7/14/2009	3.95	
7/14/2009		
8/12/2009	3.45	
8/18/2009	3.51	
8/18/2009	3.51	
8/18/2009	3.51	
8/18/2009	3.51	
8/18/2009	3.51	
8/18/2009		
8/18/2009		
9/16/2009	4.37	3.55
9/16/2009	3.5	
9/22/2009	3.65	
9/22/2009	3.65	
9/22/2009	3.65	
9/22/2009		
10/5/2009	3.31	
11/4/2009	2.8	3.53
11/4/2009	2.8	3.53
11/5/2009	3.47	
11/17/2009	3.5	
11/17/2009	3.5	
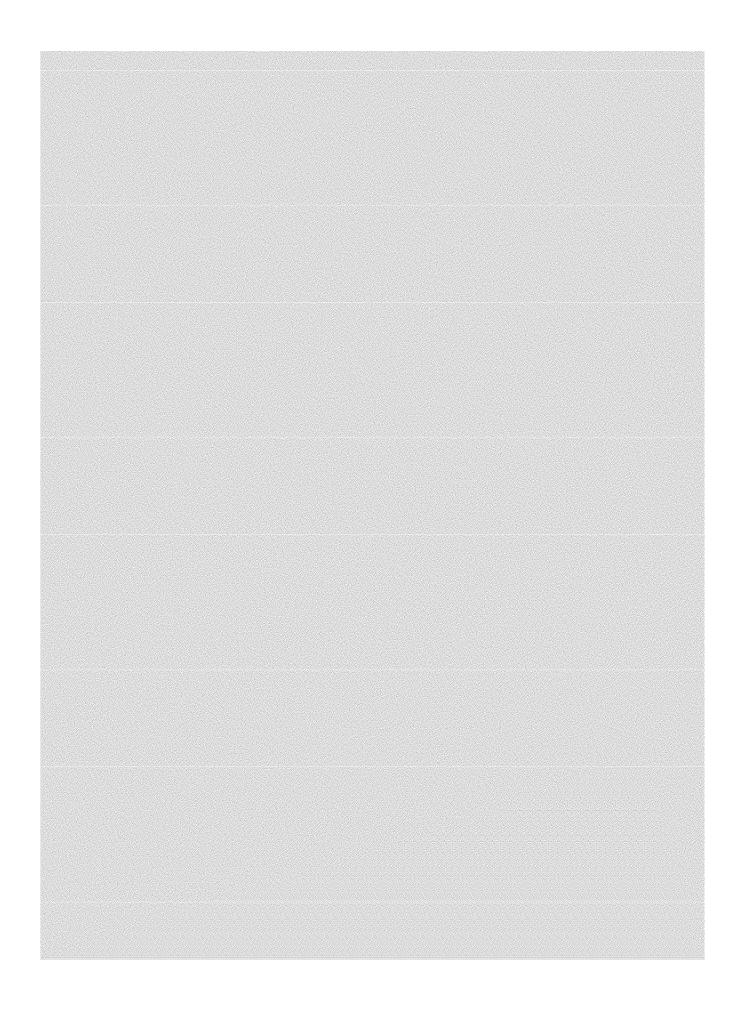
Date	Value	
11/17/2009		
12/1/2009	3.36	
2/17/2010	3.5	
2/17/2010	3.5	
2/17/2010	3.5	
2/17/2010	3.5	
2/17/2010	3.5	
2/17/2010	3.5	
2/17/2010		
2/17/2010		
3/2/2010	3.43	
3/17/2010	3.42	
3/17/2010	3.42	
3/17/2010	3.42	
3/17/2010		
4/6/2010	3.5	
4/13/2010	3.93	
4/13/2010	3.93	
4/13/2010	3.93	
4/13/2010	3.93	
5/5/2010	4.15	
5/5/2010	4.15	4
6/2/2010	4.77	
6/2/2010	5.34	
6/2/2010	5.34	
6/2/2010		
6/2/2010		
7/8/2010	3.05	
7/8/2010	3.05	3.57
7/13/2010	3.57	
7/13/2010	3.57	
7/13/2010		
8/10/2010	3.57	
9/9/2010	3.04	
9/9/2010	3.04	3.56
9/14/2010	3.45	
9/14/2010	3.45	
9/14/2010	3.45	
9/14/2010	3.45	
9/14/2010	3.45	
9/14/2010	3.45	
9/14/2010		
9/14/2010		
9/14/2010		
10/4/2010	3.27	
11/2/2010	3.51	
11/2/2010	3.51	
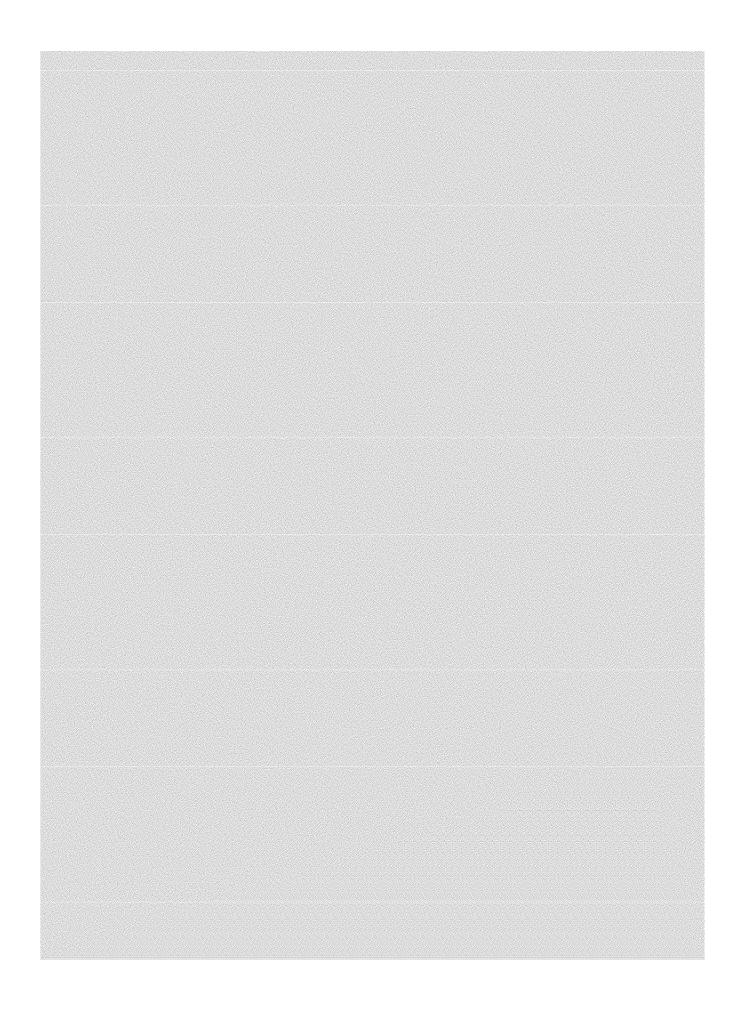
Date	pH	
11/2/2010	3.51	
11/2/2010	3.51	
11/2/2010	3.51	
11/2/2010	3.51	
11/2/2010		
11/2/2010		
11/3/2010	3.2	
11/3/2010	3.2	3.48
12/7/2010	3.36	
1/5/2011	3.42	
1/5/2011	3.42	3.67
2/11/2011	4.36	
3/9/2011	3.33	
3/9/2011	3.33	3.51
03/15/11	3.54	
4/6/2011	3.28	
5/4/2011	3.53	3.74
5/8/2011	3.38	
6/3/2011	4.09	
06/14/11	5.24	
7/5/2011	3.88	
07/19/11	4.54	
8/1/2011	3.34	
08/16/11	3.45	
9/7/2011	3.04	
9/7/2011	4.41	3.52
09/13/11	3.51	
10/7/2011	3.16	
10/18/11	3.24	
11/2/2011	5.66	
11/2/2011	5.66	3.61
12/7/2011	2.98	
1/5/2012	3.02	
2/9/2012	2.99	
3/7/2012	2.91	
4/3/2012	3.5	
5/2/2012	3.49	
5/15/2012	4.43	
6/2/2012	3.96	
8/6/2012	3.04	
9/4/2012	2.95	
10/2/2012	3.4	
10/3/2012	2.88	
10/4/2012	3.68	
11/7/2012	3	
12/10/2012	2.88	

Jan. pH	Feb pH	Mar pH	Apr pH	May pH	June pH	July pH
3.02	2.99	2.91	3.5	3.49	3.96	3.39
2.83	2.89	2.98	2.99	4.43	4.54	4.73
2.98	2.93	3.02	3.14	3.8	4.3	
				4.43		
				4.6		

2012 2013 2014

1/7/2013	2.83
2/7/2013	2.89
3/11/2013	2.98
4/10/2013	2.99
5/7/2013	3.8
5/14/2013	4.43
6/5/2013	4.54
7/7/2013	3.39
8/4/2013	3.34
9/10/2013	3.07
10/2/2013	3.61
11/8/2013	2.93
12/13/2013	3
1/8/2014	2.98
2/7/2014	2.93
3/5/2014	3.02
4/10/2014	3.14
5/6/2014	4.6
6/6/2014	4.3
7/1/2014	4.73
8/1/2014	3.34
9/5/2014	3.04
9/23/2014	4
10/2/2014	3.91
11/7/2014	3.38
12/5/2014	3.42

All red font are averages of same day samples
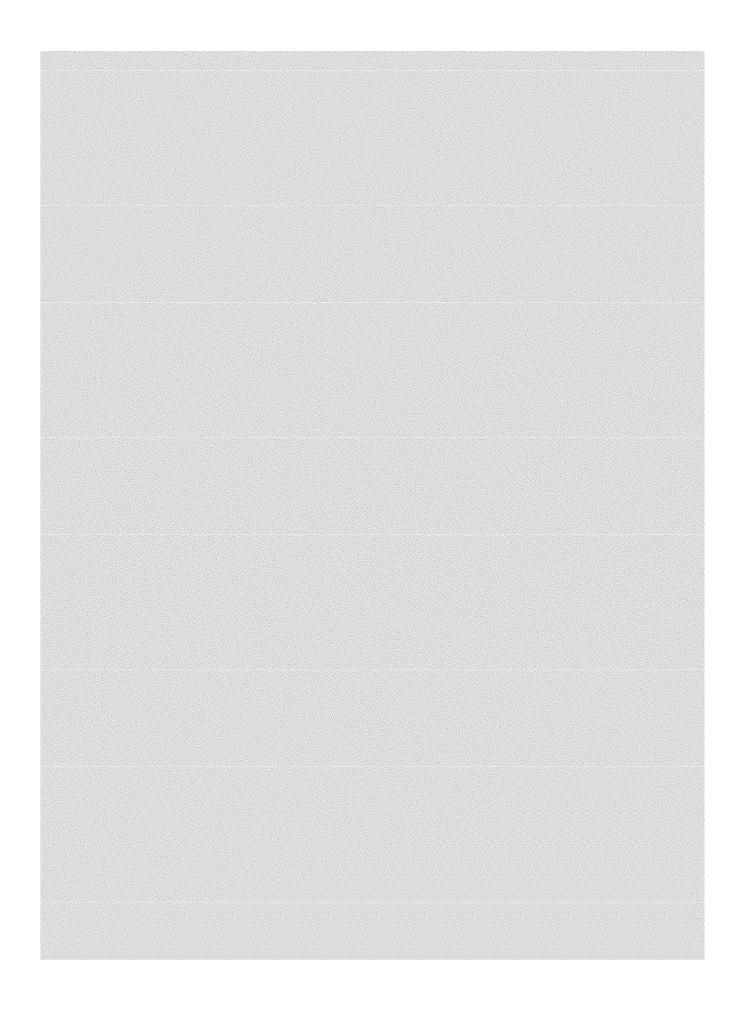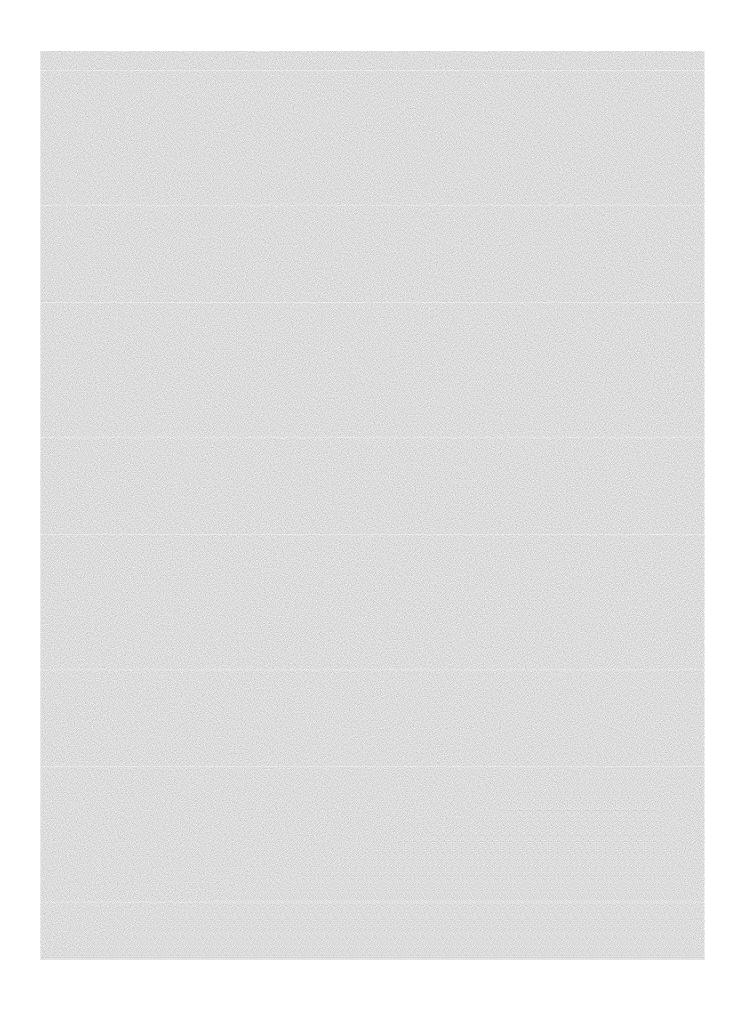
July pH	Aug pH	Sept pH	Oct pH	Nov pH	Dec pH
4.13	6.21	4.58	4.60	3.83	4.32
4.40	4.78	4.44	5.10	4.37	4
4.59		4.36	4.19	4.31	
5.10		4.65	4.05	4.37	
4.88		4.08			
5.54		4.86			
		3.7			
		4.20			
		4.03			

	Jan.
Ave. pH 1991-mid 1996	4.38
15th pH 1991-mid 1996	4.14
pH standard	3.70

1994   1995   1996
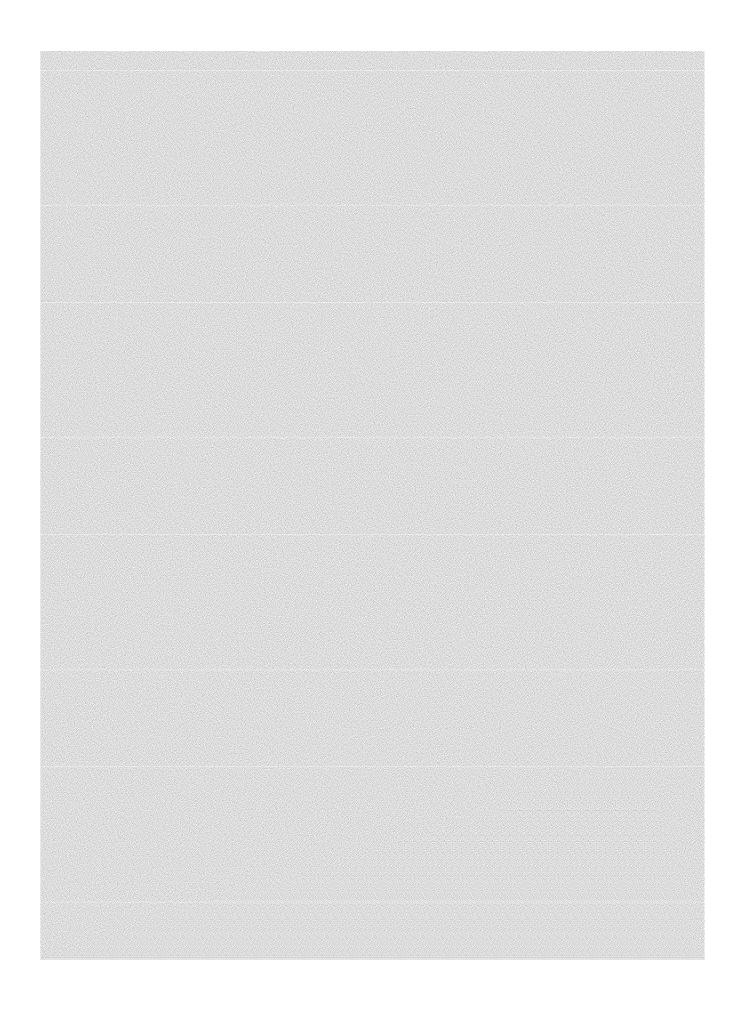
	July	Aug	Sept	Oct	Nov	Dec				Jan.
	pH	pH	pH	pH	pH	pH		Ave. pH 1998-2001		4.10
	5.18	3.13	3.47	3.55	3.77	3.38		15th pH 1998-2001		3.71
	4.25	4.37	3.71	3.92	3.98	4.35				
	5.12	4.48	3.78	3.29	3.91	4.02				
	4.68	3.43	4.65	4.02	4.04	4.25				
	3.7	4.02	4.00	4.27	3.88					
	4.46		3.57	3.57	5.34					
			3.51							

2001

	July pH	Aug pH	Sept pH	Oct pH	Nov pH	Dec pH
	4.1	3.59	3.66	2.94	3.71	3.25
	4.81	3.35	4.45	3.26	3.98	3.36
		3.45		3.31	2.8	2.98
	3.95	3.51	3.65	3.27	3.5	
	3.05	3.57	3.04	3.16	3.51	
	3.57	3.34	3.45	3.24	3.2	
	3.88	3.45	4.41		5.66	
	4.54		3.51			

	Jan.
Ave. pH 2007-2011	3.46
15th pH 2007-2011	3.30

2010   2011

	Aug	Sept	Oct	Nov	Dec
	pH	pH	pH	pH	pH
	3.04	2.95	3.4	3	2.88
	3.34	3.07	2.88	2.93	3
	3.34	3.04	3.68	3.38	3.42
		4	3.61		
			3.91		

	Jan.
Ave. pH 2012-2014	2.94
15th pH 2012-2014	2.88
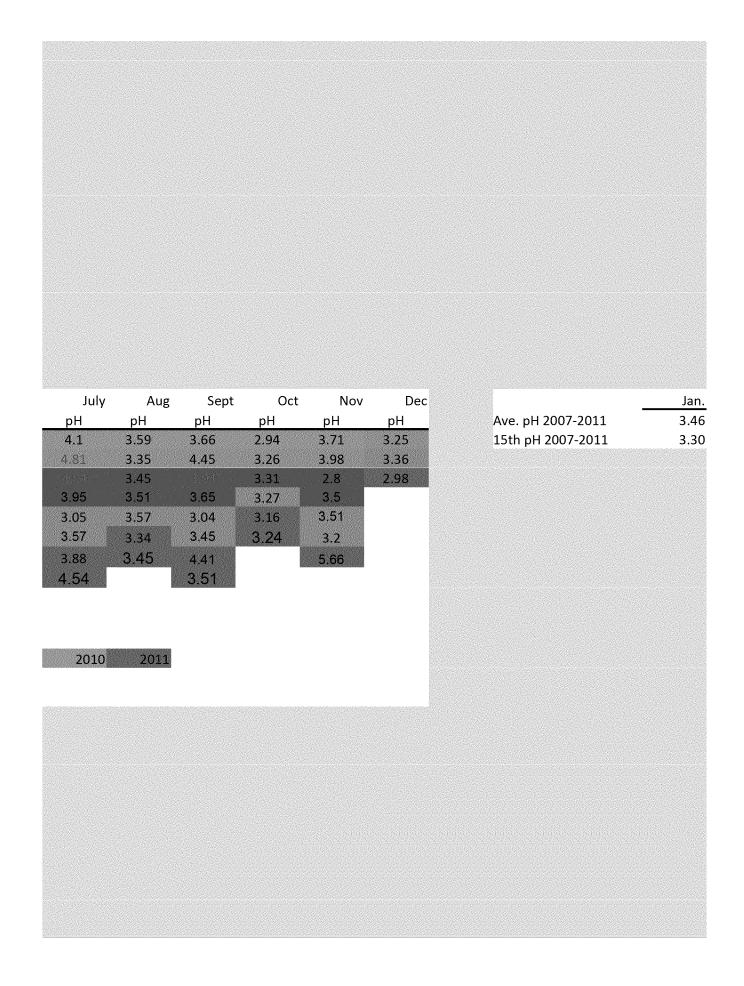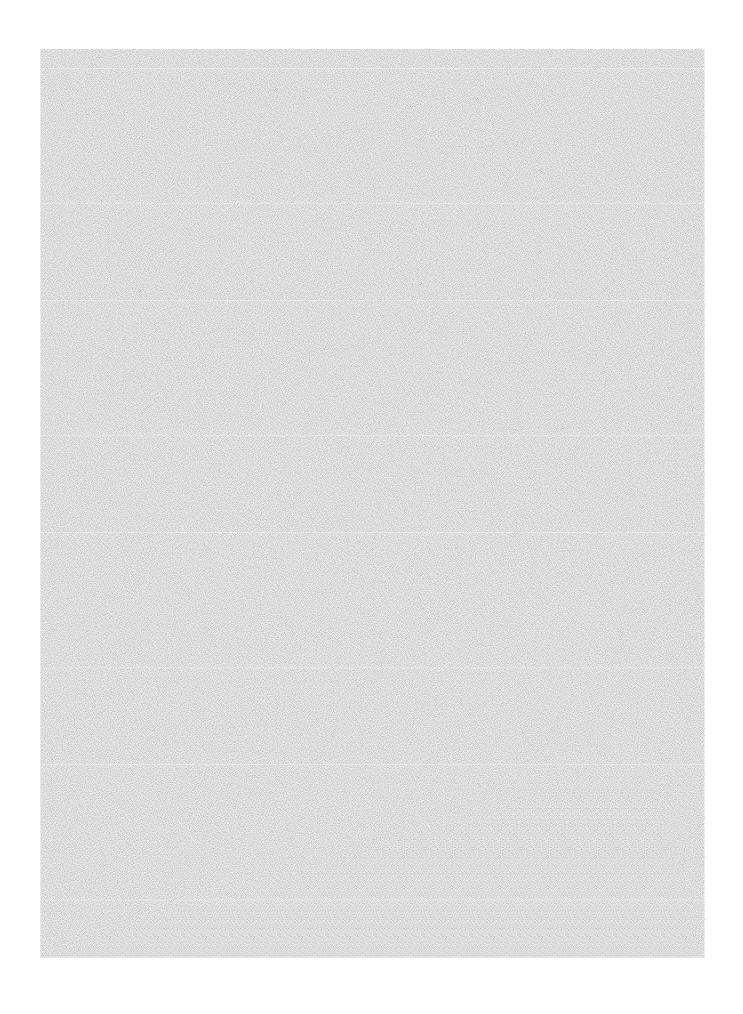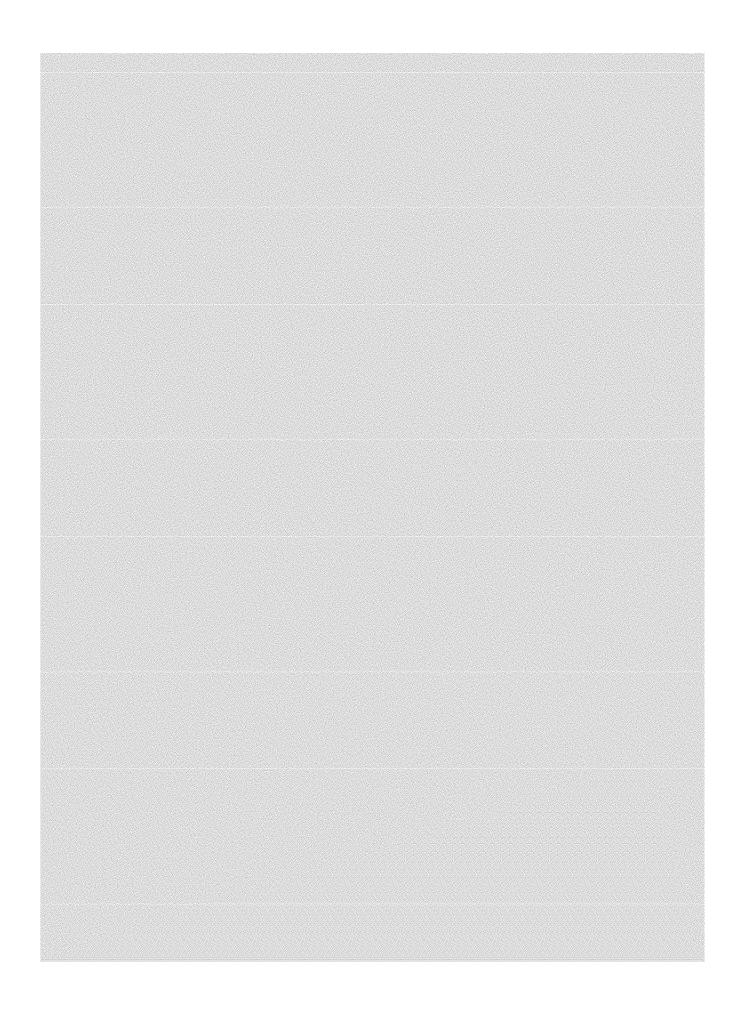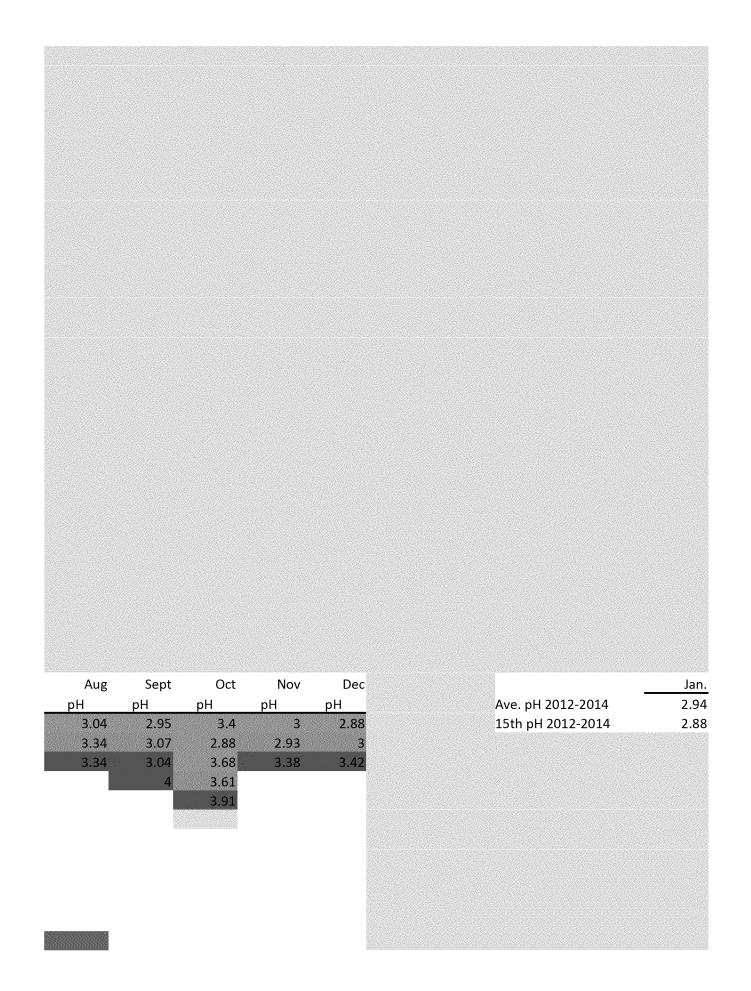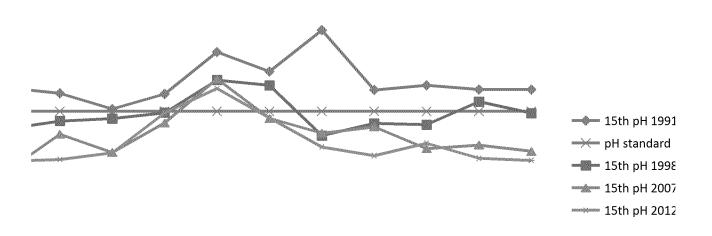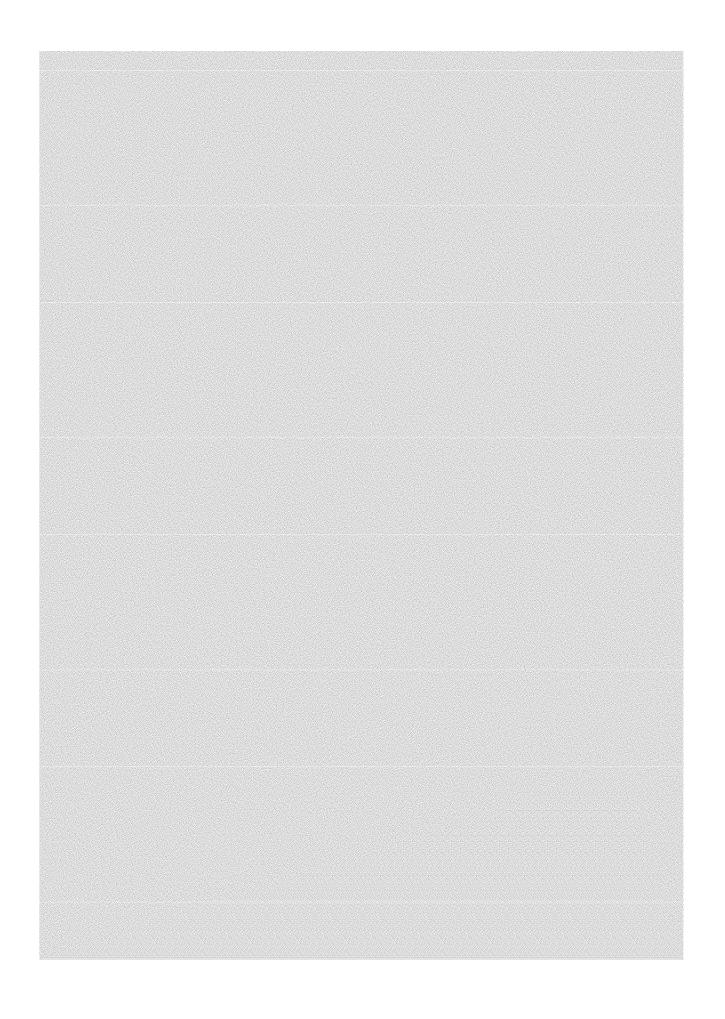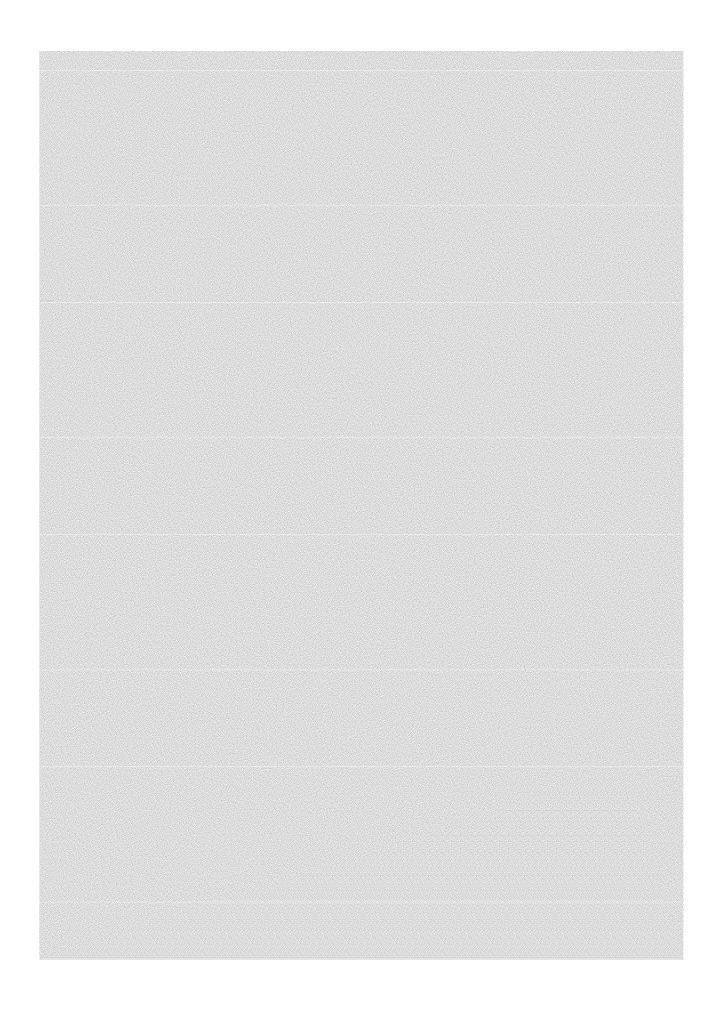
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
4.21	4.06	4.10	4.37	4.99	4.77	5.50	4.32	4.49	4.37
4.07	3.99	3.74	3.98	4.64	4.33	4.99	4.04	4.11	4.05
3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70

pH at CC48

Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec

Legend:
- 15th pH 1991
- pH standard
- 15th pH 1998
- 15th pH 2007
- 15th pH 2012
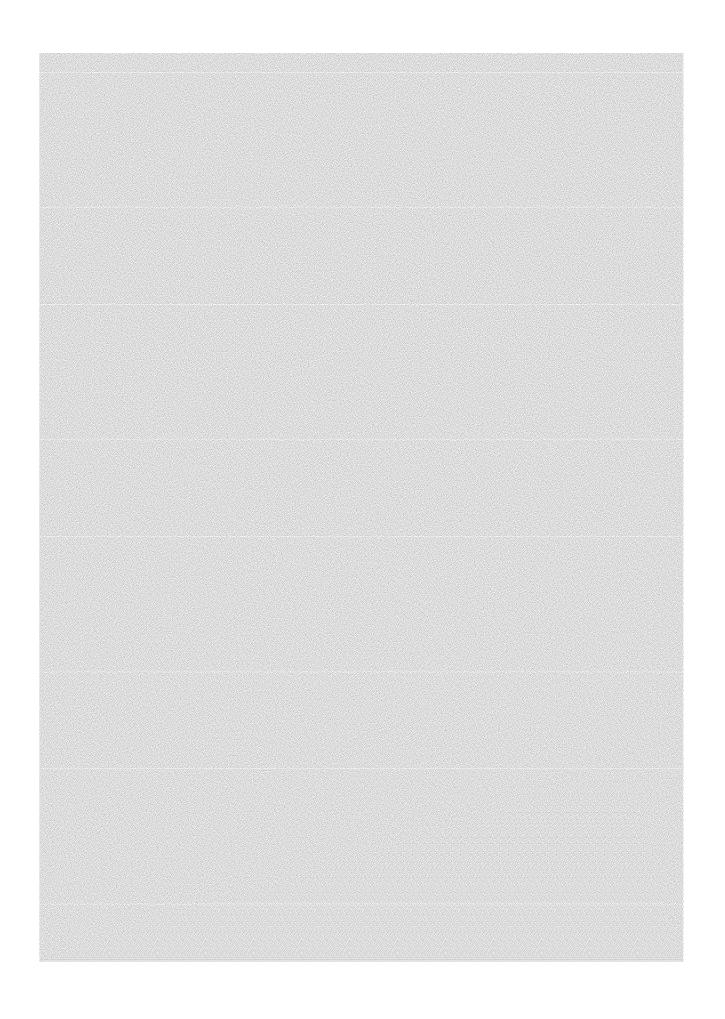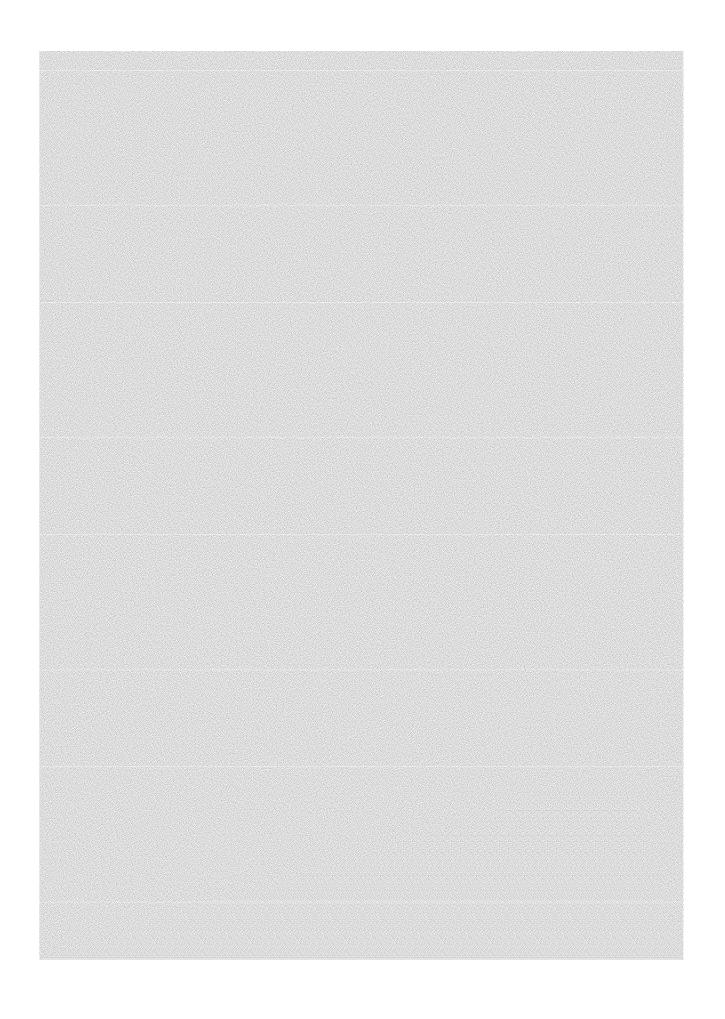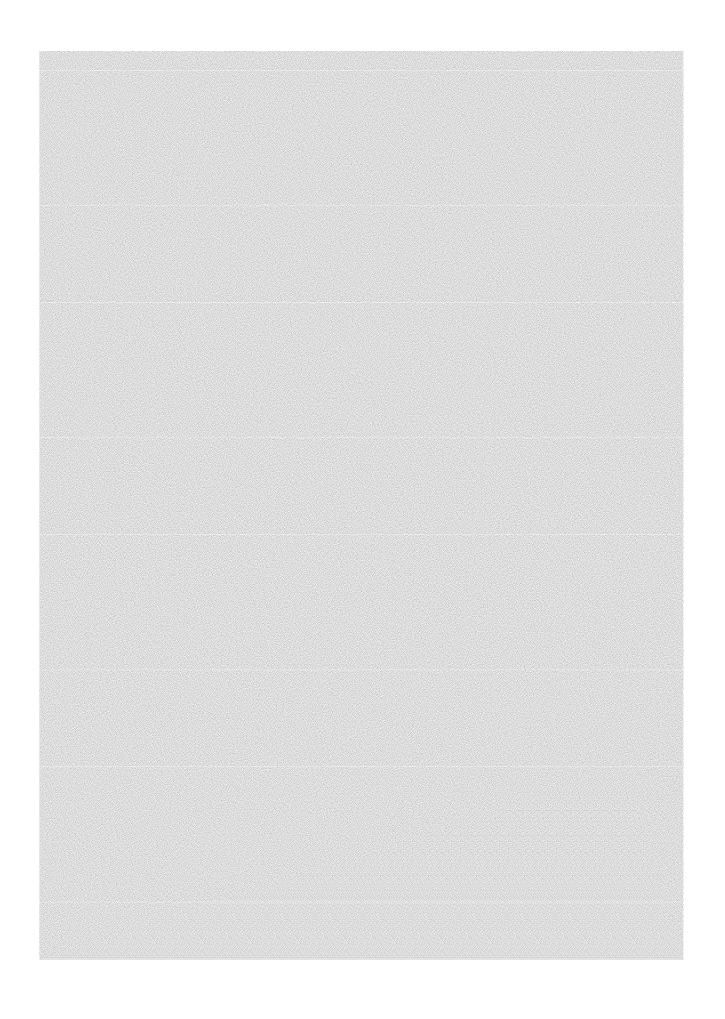
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
3.69	3.76	3.97	4.07	4.52	4.57	3.89	3.81	3.77	4.15
3.42	3.54	3.58	3.68	4.20	4.11	3.31	3.51	3.49	3.85
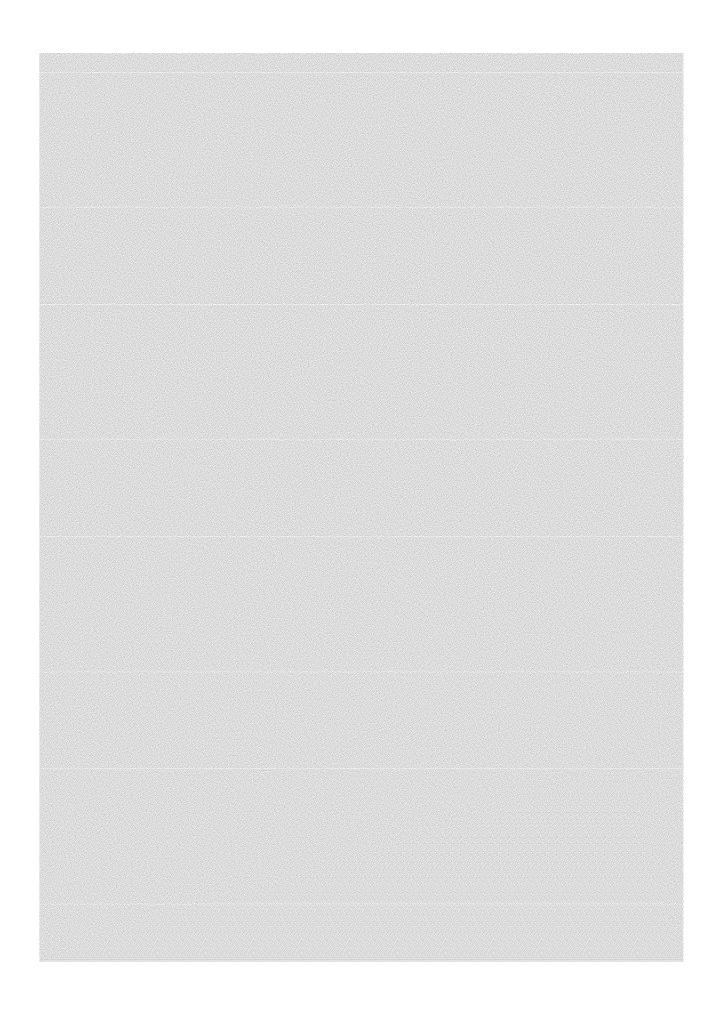
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
3.37	3.53	3.25	4.49	4.55	4.10	3.47	3.76	3.20	3.77
2.75	3.33	3.04	3.52	4.22	3.59	3.35	3.45	3.11	3.16

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
2.94	2.97	3.21	4.15	4.27	4.06	3.24	3.27	3.50	3.10
2.90	2.93	3.04	3.68	4.06	3.59	3.13	2.99	3.19	2.95

Dec
4.16
4.05
3.70

.-mid 1996

3-2001

'-2011

:-2014

Dec
4.00
3.67

Dec
3.20
3.06

Dec
3.10
2.92
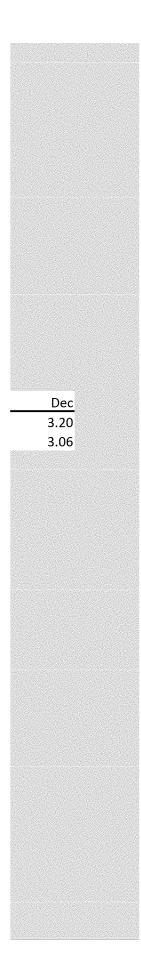
DATE ZN_DIS	
2/11/1991	860
3/28/1991	760
4/23/1991	1570
09/05/91	1000
9/6/1991	1000
9/7/1991	980
9/9/1991	930
9/10/1991	950
6/23/1992	720
6/24/1992	790
6/25/1992	790
07/23/92	725
10/14/1992	910
10/15/1992	1000
7/20/1993	820
7/21/1993	790
11/2/1993	720
3/16/1994	810
6/30/1994	750
9/29/1994	835
10/12/1994	1077
11/9/1994	1160
11/9/94	860
12/13/1994	892
1/18/1995	910
2/15/1995	116
3/1/1995	1143
3/15/1995	1407
4/6/1995	1582
4/12/1995	1500
4/12/1995	1620
4/19/1995	1397
5/3/1995	1421
5/10/1995	1320
5/22/1995	1139
5/31/1995	1444
6/7/1995	917
6/14/1995	838
6/21/1995	525
6/21/1995	635
7/5/1995	832
7/12/1995	554
7/19/1995	1051

Jan. Zn	Feb Zn	Mar Zn	Apr Zn	May Zn	June Zn	July Zn
910	860	760	1570	1421	720	725
860	116	810	1582	1320	790	820
738	814	1143	1560	1139	790	790
		1407	1397	1444	750	832
		982	821	1096	917	554
		842	1200	728	838	1051
			1120	595	580	
			981	620		
			1215			

COLOR CODE: 1991 1992 1993 1994

All red font are averages of samples on same day

Date	Value
8/2/1995	673
8/16/1995	851
9/6/1995	1060
9/13/1995	895
10/11/1995	873
11/15/1995	828
11/29/1995	620
12/13/1995	797
1/16/1996	860
1/17/1996	738
2/14/1996	814
3/13/1996	982
3/20/1996	842
4/3/1996	821
4/9/1996	1200
4/10/1996	1120
4/17/1996	981
5/1/1996	1096
5/8/1996	728
5/15/1996	595
5/21/1996	620
5/29/1996	1215
6/5/1996	531
6/12/1996	772
6/18/1996	680
6/19/1996	653
6/26/1996	709
7/3/1996	804
7/12/1996	883
7/16/1996	970
8/14/1996	780
8/14/1996	700
8/21/1996	645
9/18/1996	757
10/1/1996	654
10/16/1996	704
10/18/1996	760
11/7/1996	750
11/13/1996	763
11/19/1996	810
12/13/1996	760
12/18/1996	854
1/7/1997	650
01/09/97	679
1/15/1997	728
01/30/97	702
02/05/97	780

Date	Value
02/25/97	662
3/5/1997	880
3/19/1997	747
03/25/97	785
4/2/1997	779
04/11/97	910
4/16/1997	793
04/28/97	792
4/30/1997	817
5/7/1997	980
05/14/97	903
5/21/1997	704
05/21/97	713
5/28/1997	857
05/29/97	835
6/4/1997	558
06/05/97	527
06/10/97	770
6/11/1997	664
06/11/97	627
06/17/97	534
6/18/1997	536
06/25/97	560
06/25/97	563
7/2/1997	565
7/2/1997	553
7/9/1997	680
07/15/97	617
7/16/1997	605
07/29/97	672
8/13/1997	724
8/13/1997	766
8/13/1997	707
08/29/97	621
9/11/1997	680
9/11/1997	659
9/17/1997	669
09/25/97	737
10/08/97	740
10/15/1997	550
10/22/97	687
11/12/1997	700
11/12/1997	687
11/26/97	644
12/03/97	735
12/17/1997	671
12/23/97	601

	Jan.	Feb	Mar	Apr	May	June	July
	Zn	Zn	Zn	Zn	Zn	Zn	Zn
	710	680	645	737	729	495	540

Date	Value
1/7/1998	710
1/14/1998	624
02/04/98	680
2/11/1998	618
02/12/98	622
3/4/1998	645
3/5/1998	730
03/16/98	641
3/18/1998	728
4/1/1998	737
04/08/98	830
04/23/98	665
4/29/1998	710
5/5/1998	729
05/06/98	812
5/7/1998	860
5/13/1998	705
5/27/1998	705
6/3/1998	495
6/10/1998	556
6/10/1998	620
6/17/1998	537
6/24/1998	518
7/1/1998	540
7/8/1998	587
7/22/1998	679
08/05/98	680
9/2/1998	637
9/9/1998	650
9/16/1998	664
09/30/98	638
10/07/98	680
10/14/1998	673
11/3/1998	900
11/3/1998	731
11/18/1998	760
1/6/1999	800
1/13/1999	709
02/04/99	740
02/09/99	671
2/24/1999	639
3/3/1999	840
3/17/1999	680
4/1/1999	824
04/07/99	830
4/21/1999	805
04/29/99	744

624	618	730	830	812	588	587
800	622	641	665	860	537	679
709	740	728	710	705	518	740
790	671	840	824	705	592	813
608	639	680	830	704	577	632
1300	769	780	805	1100	685	1200
	1241	614	744	1100	620	780
	676	610	708			
			746			

COLOR CODE: 1998   1999   2000   2001

1999 data when CC not treated is not included
All red font are averages of samples on same d

Date	Value	Note
05/26/99	704	
06/09/99	620	
06/09/99	564	
6/23/1999	577	
07/07/99	740	
07/15/99	813	
07/29/99	632	
8/4/1999	1000	Cement Creek not treated
08/17/99	1056	Cement Creek not treated
9/1/1999	1100	Cement Creek not treated
9/13/1999	1521	Cement Creek not treated
10/06/99	1960	Cement Creek not treated
10/14/1999	1582	Cement Creek not treated
11/3/99	1500	Cement Creek not treated
11/17/1999	1599	Cement Creek not treated
12/1/99	754	
12/15/1999	566	
1/5/00	790	
1/12/2000	608	
2/2/00	769	
2/28/2000	1241	
3/1/00	780	
3/15/2000	614	
4/5/00	708	
5/3/00	1100	
6/7/00	685	
7/5/00	1200	
8/2/00	840	
9/6/00	1100	
10/4/00	1450	
11/1/00	1300	
12/6/00	772	
1/3/01	1300	
2/6/01	676	
3/14/01	610	
4/4/01	746	
5/2/01	1100	
6/6/01	620	
7/6/01	780	
8/1/01	1140	
9/5/01	730	
10/3/01	692	
11/7/01	730	
12/5/01	718	
1/2/02	710	
2/6/02	740	
3/6/02	700	

4/3/02	1690
5/1/02	1000
6/5/02	724
6/27/2002	558
7/3/02	550
8/7/02	938
8/14/2002	604
9/4/02	970
9/18/2002	709
10/2/02	1110
10/25/2002	827
11/6/02	685
11/12/2002	731
12/4/02	842
12/8/2002	711
1/8/2003	696
1/9/03	724
2/1/2003	1022
2/5/03	834
3/3/03	1399
3/9/2003	795
4/24/2003	1311
5/7/2003	1514
5/7/2003	1325
6/2/2003	592
7/2/2003	1329
7/2/2003	1138
8/14/2003	1721
9/11/2003	1319
10/4/2003	1033
11/6/03	1340
1/16/2004	1572
2/13/2004	1796
3/3/04	1630
3/3/04	1399
4/16/2004	1440
5/5/04	1240
5/5/04	9701
5/28/2004	669
6/17/2004	673
7/7/04	957
7/7/04	985
8/19/2004	1724
9/1/04	1950
9/15/2004	2231
10/14/04	1363
11/10/04	1780

Date	Zn
11/10/04	1707
12/8/2004	1818
1/20/2005	1245
2/15/05	1193
3/2/2005	2020
3/13/2005	1146
4/9/05	1519
5/4/2005	1530
5/4/2005	1590
6/9/2005	636
07/06/2005	801
07/06/2005	755
8/10/05	1001
9/14/05	2357
9/15/2005	2500
10/13/05	2239
11/2/2005	2116
11/2/05	2350
12/20/05	2394
1/6/06	2350
1/6/06	2510
2/8/06	**2299**
03/15/2006	2530
03/15/2006	2236
4/5/2006	2030
05/10/2006	1160
05/10/2006	1294
6/6/06	703
7/12/06	1740
7/12/06	1808
8/2/2006	2265
09/06/2006	2680
10/11/2006	1468
11/01/2006	1900
11/01/2006	2161
12/5/2006	2889
1/11/2007	3060
2/6/2007	2789
03/07/2007	2980
03/07/2007	2673
05/11/2007	1210
05/11/2007	1193
6/5/2007	686
07/11/2007	1480
07/11/2007	1390
8/6/2007	1923
09/05/2007	2640

Jan.	Feb	Mar	Apr	May	June	July
Zn	Zn	Zn	Zn	Zn	Zn	Zn
3060	2789	2827	2061	1202	686	1435
2888	2330	2637	2096	1245	655	1073
2890	2660	2560	2681	621	854	
2554	2358		1600	611	1080	1620
		2676	1916	1414	664	1548
		2600		2290	842	1800
		2552		1450	614	682
		2340				1090

Date	Value	
10/25/2007	2294	
11/07/2007	2660	
11/07/2007	610.6	Didn't use, outlier
1/2/2008	3030	
1/2/2008	2745	
3/12/2008	2950	
3/12/2008	2323	
4/10/2008	2061	
5/7/2008	1380	
5/7/2008	1110	
6/3/2008	655	
7/9/2008	1110	
7/9/2008	1035	
8/5/2008	1907	
9/3/2008	2509	
10/6/2008	2606	
11/7/2008	2620	
12/3/2008	2657	
1/8/2009	2890	
2/6/2009	2330	
3/3/2009	2560	
3/4/2009	2670	
3/4/2009	2112	
4/6/2009	2096	
5/13/2009	602	
5/13/2009	639	
5/19/2009	611	
6/2/2009	854	
6/16/2009	1080	
7/8/2009	1350	
7/8/2009	1318	
7/14/2009	1620	
8/12/2009	2455	
8/18/2009	2685	
9/16/2009	2620	
9/16/2009	2494	
9/22/2009	2570	
10/5/2009	2561	
11/4/2009	2490	
11/17/2009	2650	
2/17/2010	2660	
3/2/2010	2676	
3/17/2010	2600	
4/6/2010	2681	
4/13/2010	1600	
5/5/2010	1518	
5/5/2010	1310	

COLOR CODE:

2006	2007	2008	2009

All red font are averages of samples on same d

Date	Value
6/2/2010	668
6/2/2010	660
7/8/2010	1495
7/8/2010	1600
7/13/2010	1800
8/10/2010	2026
9/9/2010	2264
9/9/2010	2260
9/14/2010	2670
10/4/2010	2487
11/2/2010	2880
11/3/2010	2433
11/3/2010	2510
12/7/2010	2272
1/5/2011	2518
1/5/2011	2590
2/11/2011	2358
3/9/2011	2475
3/9/2011	2590
3/15/2011	2340
4/6/2011	1916
5/4/2011	2290
5/8/2011	1450
6/3/2011	842
6/14/2011	614
7/5/2011	682
7/19/2011	1090
8/1/2011	1371
8/16/2011	2140
9/7/2011	2192
9/7/2011	2130
9/13/2011	2430
10/7/2011	2368
10/18/2011	2400
11/2/2011	2350
11/2/2011	2353
12/7/2011	2463
1/5/2012	2321.6
2/9/2012	2293.1
3/7/2012	2320.1
4/3/2012	1509
5/2/2012	1112.6
5/15/2012	1070
6/2/2012	784
8/6/2012	2085.1
9/4/2012	2260.8
10/2/2012	2590
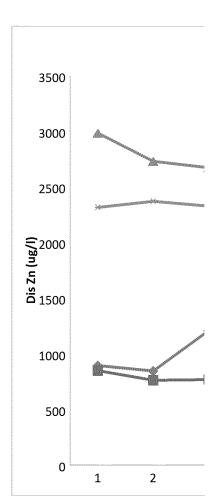
Jan. Zn	Feb Zn	Mar Zn	Apr Zn	May Zn	June Zn	July Zn
2321.6	2293.1	2320.1	1509	1112.6	784	1851.3
2311.8	2266	2320.7	2330.1	1070	819.2	778.2
2172.5	2407.3	2332.6	1567.7	1492.2	511.6	
				1160		
				1310		
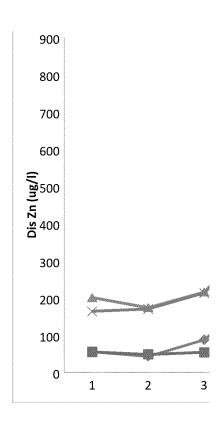
Date	Value
10/3/2012	2281.2
10/4/2012	2590
11/7/2012	2243.6
12/10/2012	2536.5
1/7/2013	2311.8
2/7/2013	2266
3/11/2013	2320.7
4/10/2013	2330.1
5/7/2013	1492.2
5/14/2013	1160
6/5/2013	819.2
7/7/2013	1851.3
8/4/2013	1821.1
9/10/2013	2003.2
10/2/2013	1560.5
11/8/2013	1930.2
12/13/2013	2186.3
1/8/2014	2172.5
2/7/2014	2407.3
3/5/2014	2332.6
4/10/2014	1567.7
5/6/2014	1310
6/6/2014	511.6
7/1/2014	778.2
8/1/2014	1413.4
9/5/2014	
9/23/2014	rain event, outlier, didn't use
10/2/2014	1603.6
11/7/2014	1949.2
12/5/2014	2287

COLOR CODE: 2012   2013   2014

All red font are averages of samples on same d

Aug	Sept	Oct	Nov	Dec
Zn	Zn	Zn	Zn	Zn
673	1000	910	720	892
851	1000	1000	1010	797
	980	1077	828	
	930	873	620	
	950			
	835			
	1060			
	895			

1995	1996

	Jan.
Ave. dZn 1991-mid 1996	836
85th dZn 1991-mid 1996	895
Ave. Hardness 1991 - mid 1996	646
Table Value Std 1991-mid 1996	661
Ave. monthly flows 1991-mid 1996 (cfs)	12
dZn Load 1991-mid 1996 lbs/day	56

	Aug	Sept	Oct	Nov	Dec			Jan.
	Zn	Zn	Zn	Zn	Zn			
	680	637	680	816	754	Ave. dZn 1998-2001		792
						85th dZn 1998-2001		850

840	650	673	760	566
1140	664	1450	1300	772
	638	692	730	718
	1100			
	730			

Ave. Hardness 1998-2001	592
Table Value Std 1998-2001	611
Ave. monthly flows 1998-2001 (cfs)	13
dZn Load 1998-2001 lbs/day	55

(Aug-Nov)
ay

	Aug	Sept	Oct	Nov	Dec
	Zn	Zn	Zn	Zn	Zn
	1923	2640	2294	1660	2657
	1907	2509	2606	2620	2272
	2455		2561	2490	2463
	2685	2570	2487	2650	
	2026	2262	2368	2880	
	1371	2670	2400	2472	
	2140	2164		2351	
		2430			

	Jan.
Ave. dZn 2007-2011	2848
85th dZn 2007-2011	2984
Ave. Hardness 2007-2011	550
Table Value Std 2007-2011	571
Ave. monthly flows 2007-2011 (cfs)	13
dZn Load 2007-2011 lbs/day	201

Ratio of 85th dZn/TVS   5.22

2010   2011
ay

| | Aug | Sept | Oct | Nov | Dec |
	Zn	Zn	Zn	Zn	Zn
	2085.1	2260.8	2590	2243.6	2536.5
	1821.1	2003.2	2281.2	1930.2	2186.3
	1413.4	2043.9	2590	1949.2	2287
			1560.5		
			1603.6		

	Jan.
Ave. dZn 2012-2014	2269
85th dZn 2012-2014	2319
Ave. Hardness 2012-2014	575
Table Value Std 2012-2014	594
Ave. monthly flows 2012-2014 (cfs)	13

dZn Load 2012-2014   164
lbs/day

Ratio of 85th dZn/TVS   3.90

ay
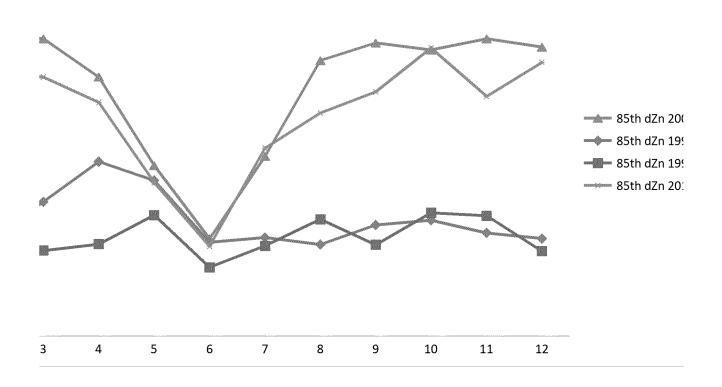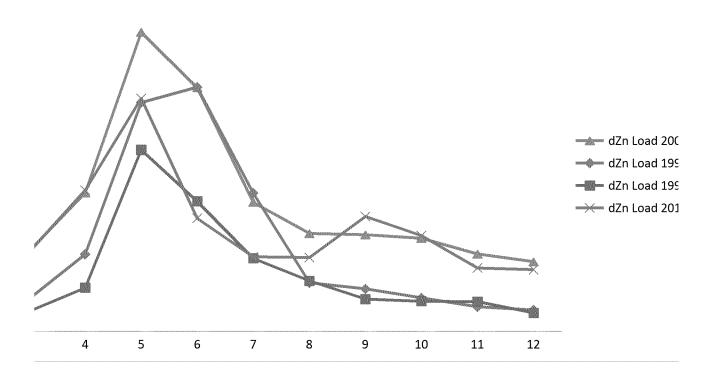
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
	597	991	1279	1064	769	795	762	956	965	795
	846	1209	1570	1401	846	887	824	1000	1042	928
	622	622	381	178	173	182	308	384	577	130
	428	428	409	204	200	209	337	412	428	154
	14	17	30	107	158	87	32	22	17	16
	43	88	208	616	657	372	131	114	91	66

Dis Zn Conc. At CC48

Legend:
- 85th dZn 200...
- 85th dZn 19...
- 85th dZn 19...
- 85th dZn 201...

Dis Zn Load at CC48

Legend:
- dZn Load 20(
- dZn Load 199
- dZn Load 199
- dZn Load 201

X-axis: 4, 5, 6, 7, 8, 9, 10, 11, 12

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
739	696	760	839	576	746	887	736	874	901
763	770	828	1088	619	811	1050	823	1109	1082

575	503	431	150	135	212	387	414	520	457
428	428	458	175	159	240	415	442	428	483
12	14	29	108	113	49	28	22	17	16
49	54	117	488	350	197	136	87	82	80

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
2534	2570	2071	1262	771	1323	2072	2475	2453	2446
2731	2674	2330	1534	877	1616	2478	2637	2572	2673
538	539	439	153	111	234	375	458	456	490
428	428	465	179	133	262	403	483	428	514
13	16	33	118	158	49	24	19	19	16
174	216	373	804	655	347	263	260	250	208

6.38   6.25   5.01   8.59   6.60   6.16   6.15   5.46   6.01   5.20

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
2322	2324	1802	1229	705	1315	1773	2103	2125	2041
2373	2329	2101	1383	809	1690	2006	2196	2590	2155
559	564	361	168	139	292	375	462	434	479
428	428	390	194	163	321	403	487	428	503
14	17	39	95	80	28	21	27	23	16

171	213	379	626	304	200	199	309	258	171
5.54	5.44	5.39	7.13	4.96	5.26	4.97	4.50	6.05	4.28

07-2011
91-mid 1996
98-2001
12-2014

07-2011

91-mid 1996

98-2001

2-2014

	Dec
	703
	764

557
428

13

50

	Dec
	2464
	2599
	516
	428
	14
	188

6.07

Dec
2337
2462
531
428
13

166

5.75

DATE	Mn_DIS
2/11/1991	2300
3/28/1991	2340
4/23/1991	1850
09/05/91	2500
9/6/1991	2300
9/7/1991	1700
9/9/1991	1400
9/10/1991	1600
6/23/1992	1100
6/24/1992	-9
6/25/1992	-9
07/23/92	1479
9/20/1992	-9
10/14/1992	-9
10/15/1992	-9
7/20/1993	1500
7/21/1993	-9
11/2/1993	2070
3/16/1994	2210
6/30/1994	1320
9/29/1994	2000
10/12/1994	1959
11/9/94	2900
11/9/1994	3260
12/13/1994	1769
1/18/1995	2110
2/15/1995	2120
3/1/1995	1916
3/15/1995	1954
4/6/1995	
4/12/1995	2420
4/12/1995	2120
4/19/1995	2005
5/3/1995	2076
5/10/1995	2300
5/22/1995	1228
5/31/1995	1635
6/7/1995	814
6/14/1995	920
6/21/1995	827
6/21/1995	683
6/28/1995	94	Outlier, didn't use
7/5/1995	735

Jan.	Feb	Mar	Apr	May	June	July
Mn	Mn	Mn	Mn	Mn	Mn	Mn
2300	2340	1850	2270	2076	1100	1479
2110	2120	2210	2005	2300	1320	1500
2200	2177	1916	1990	1228	814	735
2051		1954	2000	1635	920	432
		4260	1600	1329	755	972
		3300	1830	712	684	
				517	775	
				840	830	
				4200	641	
					870	

COLOR CODE: 1991 1992 1993 1994

All red font have another sample on same day

Date	Value
7/12/1995	432
7/19/1995	972
8/2/1995	1137
8/16/1995	1153
9/6/1995	2300
9/13/1995	1771
10/11/1995	1686
11/15/1995	2290
11/29/1995	2500
12/13/1995	1692
1/16/1996	2200
1/17/1996	2051
2/14/1996	2177
3/13/1996	4260
3/20/1996	3300
4/3/1996	1990
4/9/1996	2000
4/10/1996	1600
4/17/1996	1830
5/1/1996	1329
5/8/1996	712
5/15/1996	517
5/21/1996	840
5/29/1996	4200
6/5/1996	684
6/12/1996	775
06/18/96	830
6/19/1996	641
6/26/1996	870
7/3/1996	1368
7/10/1996	1202
7/12/1996	1727
7/16/1996	1700
8/7/1996	1624
8/14/1996	2000
08/14/96	1810
8/21/1996	1874
9/18/1996	2095
10/1/1996	1544
10/16/1996	2110
10/18/96	1690
11/07/96	1650
11/13/1996	-9
11/19/96	1900
12/13/96	1710
12/18/1996	-9
1/7/1997	1600

Date	Value
01/09/97	1811
1/15/1997	1651
01/30/97	1804
02/05/97	1860
2/12/1997	1627
02/25/97	1604
3/5/1997	1900
3/12/1997	1522
3/19/1997	1318
03/25/97	1345
4/2/1997	1371
04/11/97	1770
4/16/1997	1728
04/28/97	1637
4/30/1997	1398
5/7/1997	1100
05/14/97	770
5/21/1997	555
05/21/97	608
5/28/1997	823
05/29/97	806
6/4/1997	337
06/05/97	376
06/10/97	650
6/11/1997	484
6/11/1997	484
06/11/97	495
06/17/97	415
6/18/1997	389
6/18/1997	389
6/25/1997	447
6/25/1997	447
06/25/97	453
7/2/1997	531
7/2/1997	531
07/02/97	532
7/9/1997	760
07/15/97	755
7/16/1997	692
7/16/1997	692
07/29/97	1042
8/13/1997	1165
08/13/97	1330
08/13/97	1230
08/26/97	0
08/26/97	0
08/26/97	0

Date	Mn
08/29/97	1393
9/11/1997	1700
9/11/97	1577
9/17/1997	1832
09/25/97	1063
10/08/97	1810
10/15/1997	842
10/22/97	1107
11/12/1997	1700
11/12/1997	1540
11/26/97	1824
12/03/97	1820
12/17/1997	1637
12/23/97	1817
1/7/1998	1800
1/14/1998	1533
02/04/98	1760
2/11/1998	1470
02/12/98	1891
3/4/1998	1446
3/5/1998	2100
03/16/98	1649
3/18/1998	1635
4/1/1998	1683
04/08/98	1980
4/15/1998	-9
04/23/98	1614
4/29/1998	1652
5/5/1998	909
05/06/98	1017
5/7/1998	1100
5/13/1998	1188
5/27/1998	1188
6/3/1998	330
6/10/1998	558
06/10/98	670
6/17/1998	497
6/24/1998	421
7/1/1998	560
7/8/1998	627
7/15/1998	-9
7/22/1998	1058
08/05/98	1360
8/26/1998	-9
9/2/1998	1462
9/9/1998	1500
9/16/1998	1274

Jan. Mn	Feb Mn	Mar Mn	Apr Mn	May Mn	June Mn	July Mn
1800	1760	1446	1683	909	330	560
1533	1470	2100	1980	1017	614	627
1900	1891	1649	1614	1100	497	1058
1863	2010	1635	1652	1188	421	610
2000	2455	1700	1501	1188	406	775
1630	1452	1336	1690	702	401	2138
2600	1740	1900	1264	930	660	1500
	2439	1582	1436	870	550	920
	1930	1300	2060			
			1340			

COLOR CODE: 1998 1999 2000 2001

1999 data when CC not treated is not includ

Average of same day results

Date	Value	Note
09/30/98	2489	
10/07/98	2020	
10/14/1998	1442	
11/3/1998	1800	
11/03/98	1817	
11/18/1998	2200	
1/6/1999	1900	
1/6/1999	1900	
1/13/1999	1863	
02/04/99	2010	
02/09/99	2455	
2/24/1999	1452	
3/3/1999	1700	
3/17/1999	1336	
4/1/1999	1501	
04/07/99	1690	
4/21/1999	1264	
04/29/99	1436	
5/6/1999	-9	
05/26/99	702	
06/09/99	410	
06/09/99	401	
6/23/1999	401	
07/07/99	610	
07/15/99	775	
07/29/99	2138	
8/4/1999	1000	Cement Creek not treated
8/4/99	1000	Cement Creek not treated
08/17/99	1048	Cement Creek not treated
9/1/1999	100	Cement Creek not treated
9/13/1999	1397	Cement Creek not treated
10/06/99	1890	Cement Creek not treated
10/14/1999	1663	Cement Creek not treated
11/3/99	1900	Cement Creek not treated
11/17/1999	1818	Cement Creek not treated
12/1/99	1670	
12/15/1999	1855	
1/5/00	2000	
1/12/2000	1630	
2/2/00	1740	
2/28/2000	2439	
3/1/00	1900	
3/15/2000	1582	
4/5/00	2060	
5/3/00	930	
6/7/00	660	
7/5/00	1500	

Date	Value
8/2/00	1650
9/6/00	1800
10/4/00	2850
11/1/00	1900
12/6/00	1650
1/3/01	2600
2/6/01	1930
3/14/01	1300
4/4/01	1340
5/2/01	870
6/6/01	550
7/6/01	920
8/1/01	1590
9/5/01	1300
10/3/01	1710
11/7/01	1600
12/5/01	1700
1/2/02	1800
2/6/02	1800
3/6/02	1900
4/3/02	1690
5/1/02	1060
6/5/02	1177
6/27/2002	1294
7/3/02	1820
7/17/2002	**73**
8/7/02	2650
8/14/2002	2253
9/4/02	2660
9/18/2002	2550
10/2/02	2190
10/25/2002	1619
11/6/02	1760
11/12/2002	2472
12/4/02	2160
12/8/2002	1635
1/8/2003	1874
1/9/03	1980
2/1/2003	2429
2/5/03	2740
3/3/03	2566
3/9/2003	1878
4/24/2003	1690
5/7/2003	1685
5/7/2003	1487
6/2/2003	551
7/2/2003	1428

7/2/2003	1401
8/14/2003	2394
9/11/2003	
9/11/2003	1804
10/4/2003	1664
11/6/03	2160
12/29/2003	-9
1/16/2004	2479
2/13/2004	2951
3/3/04	2850
3/3/2004	2566
4/16/2004	2004
5/5/04	1210
5/5/2004	1261
5/28/2004	641
6/17/2004	892
7/7/04	1450
7/7/2004	2182
8/19/2004	2768
9/1/04	2630
9/15/2004	2953
10/14/04	2278
11/10/04	2980
11/10/2004	2790
12/8/2004	3125
1/20/2005	2208
2/15/05	2173
3/2/2005	3420
3/13/2005	2013
4/9/05	2358
5/4/2005	2410
5/4/05	2291
6/9/2005	691
7/6/2005	1220
07/06/2005	1220
7/6/2005	1122
8/10/05	1744
9/14/05	4386
9/15/2005	4510
09/15/2005	4510
10/13/05	4134
11/2/05	3974
11/2/2005	4170
12/20/05	4734
1/6/06	4723
01/06/2006	4870
2/8/06	4555

2/8/06	4667
3/7/06	4043
03/15/2006	4770
3/15/2006	4744
4/5/06	
4/5/2006	4043
05/10/2006	1600
5/10/2006	1860
6/6/06	955
7/12/06	3050
07/12/2006	2920
7/12/2006	3104
8/2/2006	4053
09/06/2006	5140
9/6/2006	117
10/11/2006	2396
11/01/2006	3200
11/1/2006	3946
12/5/2006	5484
1/11/2007	5994
2/6/2007	5326
03/07/2007	5910
3/7/2007	5839
4/2/2007	4283
05/11/2007	1770
5/11/2007	1688
6/5/2007	847
07/11/2007	2380
7/11/2007	2460
8/6/2007	3182
09/05/2007	5260
10/25/2007	4259
11/07/2007	4800
11/7/2007	1338
1/2/2008	5200
1/2/2008	5738
3/12/2008	5390
3/12/2008	5007
4/10/2008	4535
5/7/2008	2112
5/7/2008	1828
6/3/2008	743
7/9/2008	1580
7/9/2008	1436
8/5/2008	3026
9/3/2008	4313
10/6/2008	4907

Jan. Mn	Feb Mn	Mar Mn	Apr Mn	May Mn	June Mn	July Mn
5994	5326	5875	4283	1729	847	2420
5469	5000	5199	4535	1970	743	1508
5170	5290	5080	4288	719	1245	2258
5029	4523	4988	5349	766	1770	2830
		5346	3040	2163	807	2700
		5200	3329	4220	982	3280
		4947		2031.5	731	927
		4940				1740

COLOR CODE: 2007   2008   2009   2010

Average of same day results

Date	Value
11/7/2008	-9
11/7/2008	4960
12/3/2008	5053
1/8/2009	5170
1/8/2009	576
2/6/2009	5000
3/3/2009	5080
3/4/2009	5100
3/4/2009	4876
4/6/2009	4288
5/13/2009	700
5/13/2009	737
5/19/2009	766
6/2/2009	1245
6/16/2009	1770
7/8/2009	2290
7/8/2009	2226
7/14/2009	
7/14/2009	2830
7/14/2009	
7/14/2009	
8/12/2009	4351
8/18/2009	4810
8/18/2009	
8/18/2009	
8/18/2009	4870
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	4520
9/16/2009	4283
9/22/2009	4920
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	5024
11/4/2009	4920
11/4/2009	4920
11/5/2009	<10
11/17/2009	
11/17/2009	5270
11/17/2009	
12/1/2009	8
2/17/2010	
2/17/2010	5290
2/17/2010	

Date	Value
2/17/2010	**5260**
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	5346
3/17/2010	5200
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	5349
4/13/2010	
4/13/2010	3040
4/13/2010	
4/13/2010	**2970**
5/5/2010	2256
5/5/2010	2070
6/2/2010	840
6/2/2010	811
6/2/2010	**769**
6/2/2010	
6/2/2010	
7/8/2010	2659
7/8/2010	2740
7/13/2010	
7/13/2010	3280
7/13/2010	
8/10/2010	3491
9/9/2010	4223
9/9/2010	4120
9/14/2010	
9/14/2010	5030
9/14/2010	
9/14/2010	**4950**
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	4729
11/2/2010	
11/2/2010	5120
11/2/2010	
11/2/2010	
11/2/2010	
11/2/2010	**5220**
11/2/2010	

11/2/2010	
11/3/2010	4474
11/3/2010	4560
12/7/2010	4516
1/5/2011	4778.9
1/5/2011	5280.00
2/11/2011	4522.6
3/9/2011	4504.7
3/9/2011	5390
3/15/2011	4940
4/6/2011	3329.2
5/4/2011	4220
5/8/2011	2031.5
6/3/2011	982
6/14/2011	731
7/5/2011	926.9
7/19/2011	1740
8/1/2011	2327.1
8/16/2011	3890
9/7/2011	3793.6
9/7/2011	3830
9/13/2011	4900
10/7/2011	3971.9
10/18/2011	4620
11/2/2011	4720
11/2/2011	4311.8
12/7/2011	4788.5
1/5/2012	4762.6
2/9/2012	4291.7
3/7/2012	4737.1
4/3/2012	2411.6
5/2/2012	1623.9
5/15/2012	1620
6/2/2012	1390.2
8/6/2012	4240.6
9/4/2012	4022.4
10/2/2012	5050
10/3/2012	4861.2
10/4/2012	5040
11/7/2012	4591
12/10/2012	4922.2
1/7/2013	4979.5
2/7/2013	4486
3/11/2013	4411.5
4/10/2013	4843.4
5/7/2013	2013
5/14/2013	1440

Jan. Mn	Feb Mn	Mar Mn	Apr Mn	May Mn	June Mn	July Mn
4763	4292	4737	2412	1624	1390	3787
4980	4486	4412	4843	1620	1209	1306
4320	4742	4640	2667	2013	665	
				1440		
				1740		

COLOR CODE:

2012	2013	2014	

Average of same day results
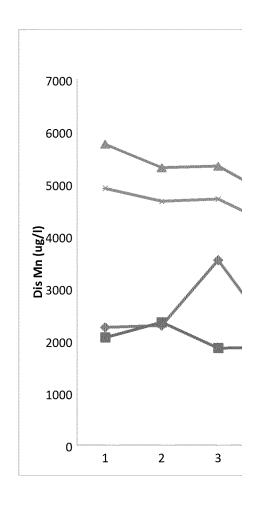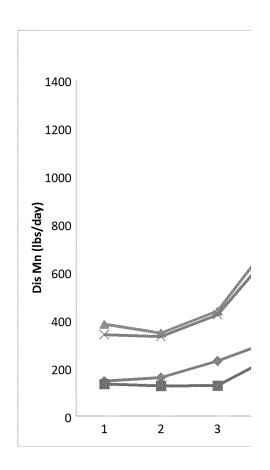
Date	Value
6/5/2013	1209.2
7/7/2013	3786.5
8/4/2013	3245.2
9/10/2013	3643.5
10/2/2013	2875.9
11/8/2013	3622.5
12/13/2013	4300.2
1/8/2014	4320.3
2/7/2014	4742.3
3/5/2014	4640.1
4/10/2014	2667.1
5/6/2014	1740
6/6/2014	664.6
7/1/2014	1306
8/1/2014	2701.9
9/5/2014	3874
9/23/2014	710
10/2/2014	2810.4
11/7/2014	3946
12/5/2014	4510.8

Aug	Sept	Oct	Nov	Dec
Mn	Mn	Mn	Mn	Mn
1137	2500	1959	1500	1769
1153	2300	1686	3080	1692
	1700		2290	
	1400		2500	
	1600			
	2000			
	2300			
	1771			

	Jan.
Ave. dZn 1991-mid 1996	2165
85th dMn 1991-mid 1996	2255
Ave. Hardness 1991-mid 1996	646
TVS Std. 1991-mid 1996	2618
Ave. monthly flows 1991-mid 1996 (cfs)	12
dMn Load 1991-mid 1996 lbs/day	145

1995	1996

	Aug	Sept	Oct	Nov	Dec			Jan.
	Mn	Mn	Mn	Mn	Mn			
	1360	1462	2020	1809	1670	Ave. dZn 1998-2001		1904
	1650	1500	1442	2200	1855	85th dMn 1998-2001		2060
	1590	1274	2850	1900	1650	Ave. Hardness 1998-2001		592
		2489	1710	1600	1700	TVS Std. 1998-2001		2618
		1800						
		1300				Ave. monthly flows 1998-2001 (cfs)		13
						dMn Load 1998-2001 lbs/day		133

ed (Aug-Nov)

Aug Mn	Sept Mn	Oct Mn	Nov Mn	Dec Mn
3182	5260	4259	4800	1338
3026	4313	4907	4960	5053
4351	4401	5024	4920	4516
4810	4920	4729	5270	4788.5
3491	4171	3972	5120	
2327	5030	4620	4517	
3890	3812			4516
	4900			
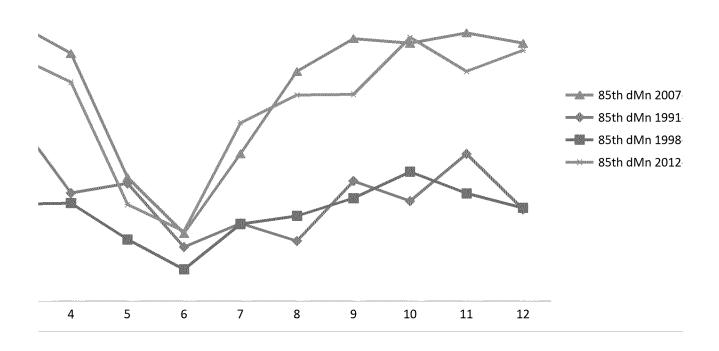
	Jan.
Ave. dZn 2007-2011	5416
85th dMn 2007-2011	5758
Ave. Hardness 2007-2011	550
TVS 2007-2011	2618
Ave. monthly flows 2007-2011 (cfs)	13
dMn Load 2007-2011 lbs/day	383

2011	

	Aug Mn	Sept Mn	Oct Mn	Nov Mn	Dec Mn
	4241	4022	5050	4591	4922
	3245	3644	4861	3623	4300
	2702	3874	5040	3946	4511
		710	2876		
			2810		
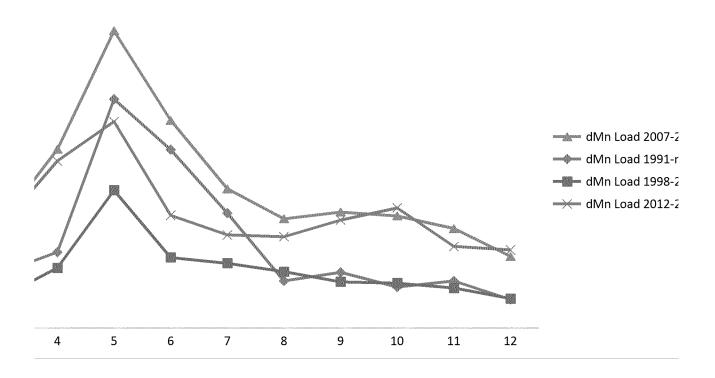
	Jan.
Ave. dZn 2012-2014	4687
85th dMn 2012-2014	4914
Ave. Hardness 2012-2014	575
TVS 2012-2014	2618
Ave. monthly flows 2012-2014 (cfs)	13
dMn Load 2012-2014 lbs/day	339

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
2212	2582	1949	1649	871	1024	1145	1946	1823	2343
2291	3540	2071	2255	1037	1487	1151	2300	1918	2819
622	622	381	178	173	182	308	384	577	130
2618	2618	2576	1997	1981	2014	2399	2583	2618	1800
14	17	30	107	158	87	32	22	17	16
161	230	316	953	743	479	197	233	171	196

Dis Mn Conc. At CC48

Legend:
- 85th dMn 2007
- 85th dMn 1991
- 85th dMn 1998
- 85th dMn 2012

X-axis: 4, 5, 6, 7, 8, 9, 10, 11, 12

Dis Mn Load at CC48

Legend:
- dMn Load 2007-2
- dMn Load 1991-r
- dMn Load 1998-2
- dMn Load 2012-2

X-axis: 4, 5, 6, 7, 8, 9, 10, 11, 12

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
1905	1628	1622	988	485	1024	1533	1638	2006	1877
2353	1860	1879	1184	611	1478	1632	1972	2477	2065
575	503	431	150	135	212	387	414	520	457
2618	2618	2618	1887	1821	2117	2590	2618	2618	2618
12	14	29	108	113	49	28	22	17	16
126	127	251	574	294	270	235	193	187	167

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
5035	5197	4137	1943	1018	2208	3583	4601	4585	4872
5310	5339	4738	2369	1297	2823	4397	5025	4936	5135
538	539	439	153	111	234	375	458	456	490
2618	2618	2618	1902	1706	2189	2562	2618	2618	2618
13	16	33	118	158	49	24	19	19	16
346	438	745	1238	865	580	455	483	468	414

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
4507	4596	3307	1687	1088	2546	3396	3062	4128	4053
4665	4708	4191	1849	1336	3414	3942	3956	5044	4398
559	564	361	168	139	292	375	462	434	479
2618	2618	2618	1960	1839	2357	2563	2618	2618	2618
14	17	39	95	80	28	21	27	23	16
331	422	696	860	469	388	381	450	501	340

Dec
1731
1757
596
2618
13
119

-2011

-mid 1996

-2001

-2014

2011

mid 1996

2001

2014

	Dec
	1719
	1785
	557
	2618
	13
	122

Dec
3924
4934
516
2618
14
299

	Dec
	4578
	4799
	531
	2618
	13
	326

DATE	CD_DIS
2/11/1991	1.40
3/28/1991	2.00
4/23/1991	4.00
09/05/91	5.10
9/6/1991	3.70
9/7/1991	3.80
9/9/1991	3.30
9/10/1991	3.60
6/23/1992	3.60
6/24/1992	5.40
6/25/1992	4.60
07/23/92	2.74
9/20/1992	-9.00
10/14/1992	2.70
10/15/1992	3.00
7/20/1993	3.97
7/21/1993	3.28
11/2/1993	2.00
3/16/1994	2.00
6/30/1994	3.00
9/29/1994	3
10/12/1994	3.10
11/9/94	2.90
11/9/1994	2.58
12/13/1994	2.16
1/18/1995	2.3
2/15/1995	3.04
3/1/1995	3.07
3/15/1995	
4/6/1995	
4/12/1995	5.00
4/12/1995	3.31
4/19/1995	3.03
5/3/1995	3.38
5/10/1995	2.57
5/22/1995	4.50
5/31/1995	4.04
6/7/1995	3.43
6/14/1995	3.75
6/21/1995	1.80
6/21/1995	1.41
6/28/1995	1.81
7/5/1995	1.87

Jan.	Feb	Mar	Apr	May	June	July
Cd	Cd	Cd	Cd	Cd	Cd	Cd
1.40	3.04	2.00	4.00	3.38	3.60	2.74
2.3	2.17	2.00	4.16	2.57	5.40	3.97
2.00		3.07	3.03	4.50	4.60	3.28
1.16		2.75	2.38	4.04	3.00	1.87
		2.30	3.50	3.21	3.43	1.52
			3.21	2.36	3.75	2.33
			2.70	2.06	1.61	
				2.50	1.81	
				6.46	1.96	
					2.25	
					3.00	
					2.16	
					2.33	

COLOR CODE:		1991	1992	1993	1994

Average of same day results

7/12/1995	1.52
7/19/1995	2.33
8/2/1995	1.49
8/16/1995	1.4
9/6/1995	4.00
9/13/1995	1.41
10/11/1995	1.41
11/15/1995	1.51
11/29/1995	2.70
12/13/1995	1.21
1/16/1996	2.00
1/17/1996	1.16
2/14/1996	2.17
3/13/1996	2.75
3/20/1996	2.30
4/3/1996	2.38
4/9/1996	3.50
4/10/1996	3.21
4/17/1996	2.70
5/1/1996	3.21
5/8/1996	2.36
5/15/1996	2.06
5/21/1996	<5
5/29/1996	6.46
6/5/1996	1.96
6/12/1996	2.25
06/18/96	3.00
6/19/1996	2.16
6/26/1996	2.33
7/3/1996	2.77
7/10/1996	2.86
7/12/1996	2.60
7/16/1996	<5
8/7/1996	1.81
8/14/1996	<5
08/14/96	2.00
8/21/1996	1.35
9/18/1996	1.73
10/1/1996	1.80
10/16/1996	1.83
10/18/96	1.00
11/07/96	1.00
11/13/1996	1.88
11/19/96	<2
12/13/96	1.00
12/18/1996	1.84
1/7/1997	<5
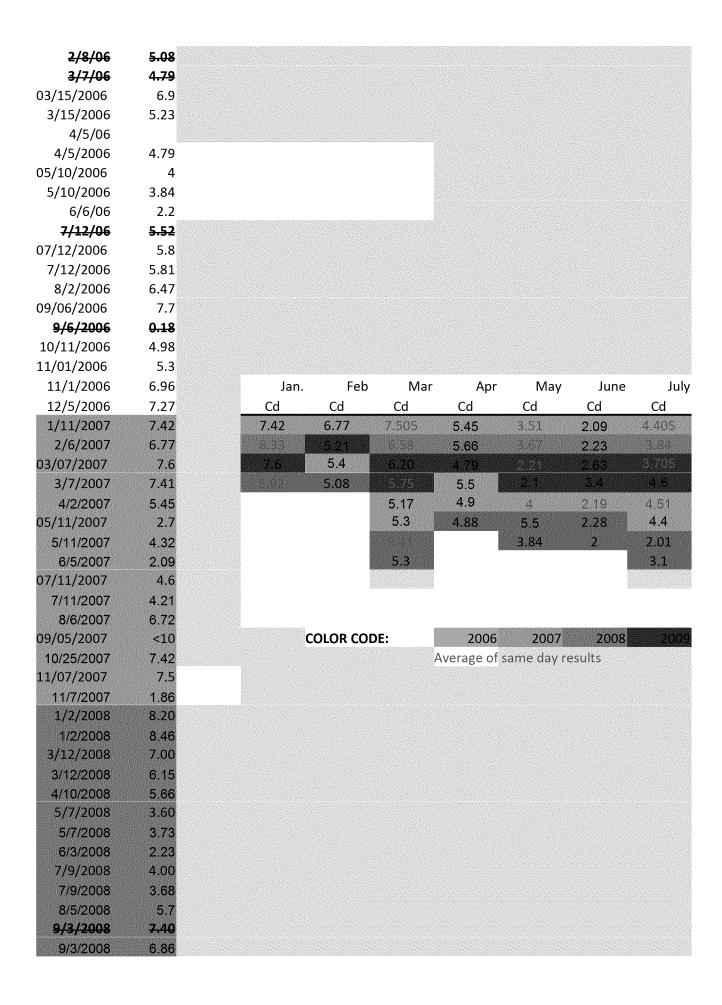
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01/30/97	<2
02/05/97	2.00
2/12/1997	1.32
02/25/97	<2
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3/12/1997	1.68
3/19/1997	1.61
03/25/97	4.72
4/2/1997	1.87
04/11/97	2.00
4/16/1997	1.55
04/28/97	2.30
4/30/1997	1.97
5/7/1997	<.1
05/14/97	<2
5/21/1997	2.09
05/21/97	2.09
5/28/1997	2.37
05/29/97	2.29
6/4/1997	1.76
06/05/97	<2
06/10/97	3.00
6/11/1997	2.36
6/11/1997	2.36
06/11/97	<2
06/17/97	<2
6/18/1997	1.92
6/18/1997	1.92
6/25/1997	2.16
6/25/1997	2.16
06/25/97	<2
7/2/1997	2.17
7/2/1997	2.17
07/02/97	<2
7/9/1997	2.70
07/15/97	<2
7/16/1997	2.16
7/16/1997	2.16
07/29/97	<2
8/13/1997	2.28
08/13/97	3.00
08/13/97	<2
08/26/97	**0.00**
08/26/97	**0.00**
08/26/97	**0.00**

Date	Cd
08/29/97	<2
9/11/1997	1.80
9/11/97	1.24
9/17/1997	1.56
09/25/97	<2
10/08/97	2.00
10/15/1997	1.42
10/22/97	2.51
11/12/1997	1.90
11/12/1997	2.36
11/26/97	<2
12/03/97	2.00
12/17/1997	2.13
12/23/97	<2
1/7/1998	2.00
1/14/1998	1.53
02/04/98	-1.00
2/11/1998	1.75
02/12/98	2.50
3/4/1998	1.82
3/5/1998	<.1
03/16/98	<2
3/18/1998	1.70
4/1/1998	1.70
04/08/98	1.00
4/15/1998	-9.00
04/23/98	<2
4/29/1998	1.67
5/5/1998	2.39
05/06/98	<2
5/7/1998	2.90
5/13/1998	2.05
5/27/1998	2.05
6/3/1998	0.81
6/10/1998	2.57
06/10/98	2.00
6/17/1998	2.32
6/24/1998	1.61
7/1/1998	2.30
7/8/1998	1.77
7/15/1998	-9.00
7/22/1998	1.67
08/05/98	2.00
8/26/1998	-9.00
9/2/1998	1.40
9/9/1998	1.60
9/16/1998	1.29

Jan.	Feb	Mar	Apr	May	June	July
Cd	Cd	Cd	Cd	Cd	Cd	Cd
2.00	1.75	1.82	1.70	2.39	0.81	2.30
1.53	2.50	0.05	1.00	1.00	2.57	1.77
1.60	1.00	1.00	1.00	2.90	2.00	1.67
1.50	1.00	1.70	1.67	2.05	2.32	2.00
2.30	1.33	1.90	3.56	2.05	1.61	6.41
2.20	2.00	1.46	2.00	3.27	2.24	1.00
4.70	3.19	2.20	1.95	5.90	2.40	6.90
	2.00	1.95	1.00	5.30	3.00	4.30
		1.70	2.00		3.00	
			2.00			

COLOR CODE:		1998	1999	2000	2001

1999 data when CC not treated is not included (
Average of same day results

Date	Value	Note
09/30/98	<2	
10/07/98	2.00	
10/14/1998	1.73	
11/3/1998	2.00	
11/03/98	<2	
11/18/1998	1.77	
1/6/1999	1.60	
1/6/1999	1.60	
1/13/1999	1.50	
02/04/99	1.00	
02/09/99	<2	
2/24/1999	1.33	
3/3/1999	1.90	
3/17/1999	1.46	
4/1/1999	3.56	
04/07/99	2.00	
4/21/1999	1.95	
04/29/99	<2	
5/6/1999	-9.00	
05/26/99	3.27	
06/09/99	1.00	
06/09/99	3.48	
6/23/1999	2.40	
07/07/99	2.00	
07/15/99	6.41	
07/29/99	<2	
8/4/1999	7.50	Cement Creek not treated
8/4/99	7.50	Cement Creek not treated
08/17/99	7.16	Cement Creek not treated
9/1/1999	11.00	Cement Creek not treated
9/13/1999	1.76	Cement Creek not treated
10/06/99	13.00	Cement Creek not treated
10/14/1999	20.97	Cement Creek not treated
11/3/99	13.00	Cement Creek not treated
11/17/1999	20.58	Cement Creek not treated
12/1/99	2.00	
12/15/1999	1.86	
1/5/00	2.30	
1/12/2000	2.20	
2/2/00	2.00	
2/28/2000	3.19	
3/1/00	2.20	
3/15/2000	1.95	
4/5/00	2.00	
5/3/00	5.90	
6/7/00	3.00	
7/5/00	6.90	

8/2/00	3.00
9/6/00	6.00
10/4/00	7.00
11/1/00	6.10
12/6/00	3.00
1/3/01	4.70
2/6/01	2.00
3/14/01	1.70
4/4/01	2.00
5/2/01	5.30
6/6/01	3.00
7/6/01	4.30
8/1/01	7.00
9/5/01	2.20
10/3/01	2.00
11/7/01	2.00
12/5/01	2.00
1/2/02	1.80
2/6/02	2.00
3/6/02	2.00
4/3/02	7.00
5/1/02	4.00
6/5/02	1.80
6/27/2002	1.74
7/3/02	1.60
7/17/2002	**0.18**
8/7/02	5.00
8/14/2002	1.89
9/4/02	4.00
9/18/2002	2.83
10/2/02	7.00
10/25/2002	2.45
11/6/02	2.00
11/12/2002	2.09
12/4/02	2.00
12/8/2002	1.99
1/8/2003	2.28
1/9/03	2.00
2/1/2003	3.6
2/5/03	3.00
3/3/03	6.35
3/9/2003	2.94
4/24/2003	6.21
5/7/2003	6.35
5/7/2003	6.4
6/2/2003	2.45
7/2/2003	5.80

7/2/2003	5.99
8/14/2003	10.62
9/11/2003	
9/11/2003	5.72
10/4/2003	4.83
11/6/03	5.80
12/29/2003	-9.00
1/16/2004	6.70
2/13/2004	7.36
3/3/04	6.60
3/3/2004	6.35
4/16/2004	6.45
5/5/04	4.80
5/5/2004	5.20
5/28/2004	3.55
6/17/2004	2.96
7/7/04	4.30
7/7/2004	4.72
8/19/2004	7.64
9/1/04	5.10
9/15/2004	9.32
10/14/04	6.33
11/10/04	5.50
11/10/2004	5.44
12/8/2004	5.73
1/20/2005	3.44
2/15/05	3.55
3/2/2005	5.4
3/13/2005	3.52
4/9/05	4.48
5/4/2005	4.8
5/4/05	4.64
6/9/2005	2.52
7/6/2005	2.9
07/06/2005	2.7
7/6/2005	2.96
8/10/2005	3.46
9/14/05	7.11
9/15/2005	0.7
09/15/2005	7
10/13/05	6.94
11/2/05	6.15
11/2/2005	0.64
12/20/05	6.28
1/6/06	6.24
01/06/2006	7.1
2/8/06	5.51

Date	Value
2/8/06	**5.08**
3/7/06	**4.79**
03/15/2006	6.9
3/15/2006	5.23
4/5/06	
4/5/2006	4.79
05/10/2006	4
5/10/2006	3.84
6/6/06	2.2
7/12/06	**5.52**
07/12/2006	5.8
7/12/2006	5.81
8/2/2006	6.47
09/06/2006	7.7
9/6/2006	**0.18**
10/11/2006	4.98
11/01/2006	5.3
11/1/2006	6.96
12/5/2006	7.27
1/11/2007	7.42
2/6/2007	6.77
03/07/2007	7.6
3/7/2007	7.41
4/2/2007	5.45
05/11/2007	2.7
5/11/2007	4.32
6/5/2007	2.09
07/11/2007	4.6
7/11/2007	4.21
8/6/2007	6.72
09/05/2007	<10
10/25/2007	7.42
11/07/2007	7.5
11/7/2007	1.86
1/2/2008	8.20
1/2/2008	8.46
3/12/2008	7.00
3/12/2008	6.15
4/10/2008	5.66
5/7/2008	3.60
5/7/2008	3.73
6/3/2008	2.23
7/9/2008	4.00
7/9/2008	3.68
8/5/2008	5.7
9/3/2008	**7.40**
9/3/2008	6.86

Jan. Cd	Feb Cd	Mar Cd	Apr Cd	May Cd	June Cd	July Cd
7.42	6.77	7.505	5.45	3.51	2.09	4.405
8.33	5.21	6.58	5.66	3.67	2.23	3.84
7.6	5.4	6.20	4.79	2.21	2.63	3.705
6.92	5.08	5.75	5.5	2.1	3.4	4.6
		5.17	4.9	4	2.19	4.51
		5.3	4.88	5.5	2.28	4.4
		5.41		3.84	2	2.01
		5.3				3.1

COLOR CODE: 2006 2007 2008 2009

Average of same day results

Date	Value
10/6/2008	6.77
11/7/2008	-9.00
11/7/2008	6.53
12/3/2008	5.96
1/8/2009	7.6
1/8/2009	0.95
2/6/2009	5.21
3/3/2009	6.20
3/4/2009	6.8
3/4/2009	4.7
4/6/2009	4.79
5/13/2009	2.2
5/13/2009	2.22
5/19/2009	2.1
6/2/2009	2.63
6/16/2009	3.4
6/16/2009	
6/16/2009	
7/8/2009	4.1
7/8/2009	3.31
7/14/2009	
7/14/2009	4.6
7/14/2009	
7/14/2009	
8/12/2009	5.8
8/18/2009	6.6
8/18/2009	
8/18/2009	
8/18/2009	6.5
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	6.5
9/16/2009	6.05
9/22/2009	6.6
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	6.32
11/4/2009	6.2
11/4/2009	6.20
11/5/2009	0
11/17/2009	
11/17/2009	6.4
11/17/2009	

Date	Value
12/1/2009	0.24
2/17/2010	
2/17/2010	5.4
2/17/2010	
2/17/2010	5.5
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	5.17
3/17/2010	5.3
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	5.5
4/13/2010	
4/13/2010	4.9
4/13/2010	
4/13/2010	4.9
5/5/2010	3.9
5/5/2010	4.10
6/2/2010	2.17
6/2/2010	2.2
6/2/2010	2.2
6/2/2010	
6/2/2010	
7/8/2010	4.42
7/8/2010	4.60
7/13/2010	
7/13/2010	4.4
7/13/2010	
8/10/2010	5.57
9/9/2010	5.15
9/9/2010	6.20
9/14/2010	
9/14/2010	5.7
9/14/2010	
9/14/2010	5.5
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	6.08
11/2/2010	
11/2/2010	6.7
11/2/2010	

Date	Value
11/2/2010	
11/2/2010	
11/2/2010	**6.7**
11/2/2010	
11/2/2010	
11/3/2010	5.34
11/3/2010	6.80
12/7/2010	5.4
1/5/2011	5.64
1/5/2011	6.20
2/11/2011	5.08
3/9/2011	5.12
3/9/2011	5.7
3/15/2011	5.3
4/6/2011	4.88
5/4/2011	5.5
5/8/2011	3.84
6/3/2011	2.28
6/14/2011	2
7/5/2011	2.01
7/19/2011	3.1
8/1/2011	3.52
8/16/2011	5.6
9/7/2011	4.35
9/7/2011	5.4
9/13/2011	5.9
10/7/2011	6.91
10/18/2011	7
11/2/2011	5.9
11/2/2011	5.58
12/7/2011	4.94
1/5/2012	5.56
2/9/2012	5.22
3/7/2012	5.12
4/3/2012	4.24
5/2/2012	3.42
5/15/2012	2.91
6/2/2012	2.35
8/6/2012	5.28
9/4/2012	5.51
10/2/2012	5.06
10/3/2012	5.42
10/4/2012	5.34
11/7/2012	5.05
12/10/2012	5.42
1/7/2013	5.17
2/7/2013	4.97

Jan.	Feb	Mar	Apr	May	June	July
Cd	Cd	Cd	Cd	Cd	Cd	Cd
5.56	5.22	5.12	4.24	3.42	2.35	4.57
5.17	4.97	4.87	5.45	2.91	2.68	2.69
5	5.39	4.98	3.95	4.95	1.76	
				3.2		
				3.83		

COLOR CODE: 2012 2013 2014

Average of same day results

3/11/2013	4.87
4/10/2013	5.45
5/7/2013	4.95
5/14/2013	3.2
6/5/2013	2.68
7/7/2013	4.57
8/4/2013	5.37
9/10/2013	6.1
10/2/2013	5.1
11/8/2013	5.02
12/13/2013	5.31
1/8/2014	5
2/7/2014	5.39
3/5/2014	4.98
4/10/2014	3.95
5/6/2014	3.83
6/6/2014	1.76
7/1/2014	2.69
8/1/2014	4.3
9/5/2014	5.34
9/23/2014	5.08
10/2/2014	5.18
11/7/2014	5.08
12/5/2014	5.58

	Aug	Sept	Oct	Nov	Dec
	Cd	Cd	Cd	Cd	Cd
	1.49	5.10	2.70	2.00	2.16
	1.4	3.70	3.00	2.74	1.21
		3.80	3.10	1.51	
		3.30	1.41	2.70	
		3.60			
		3			
		4.00			
		1.41			
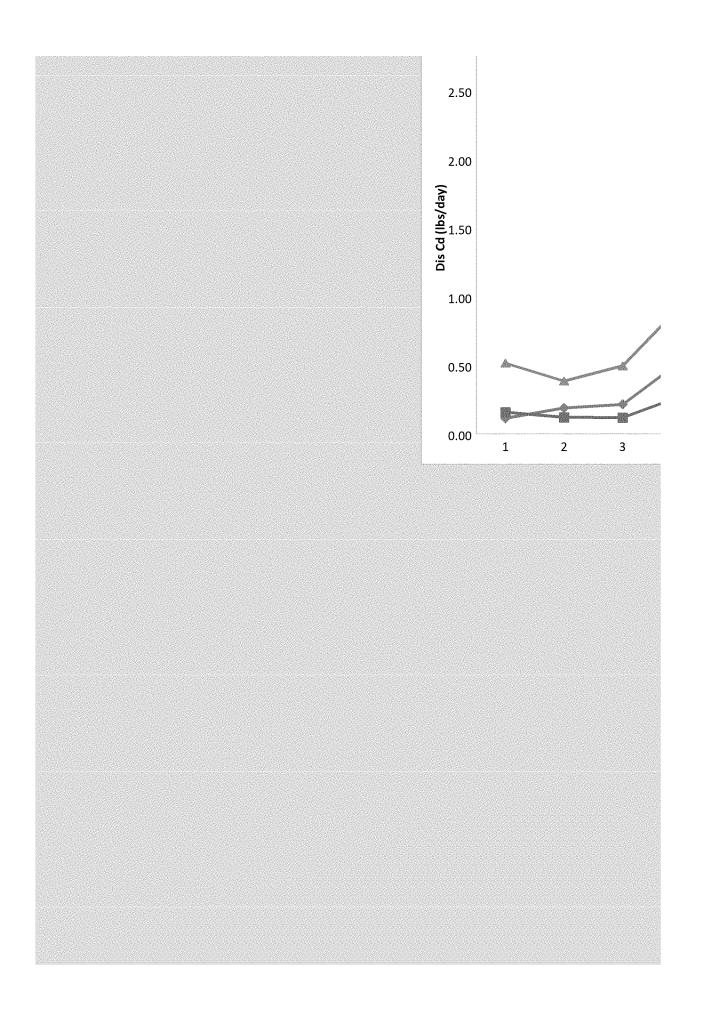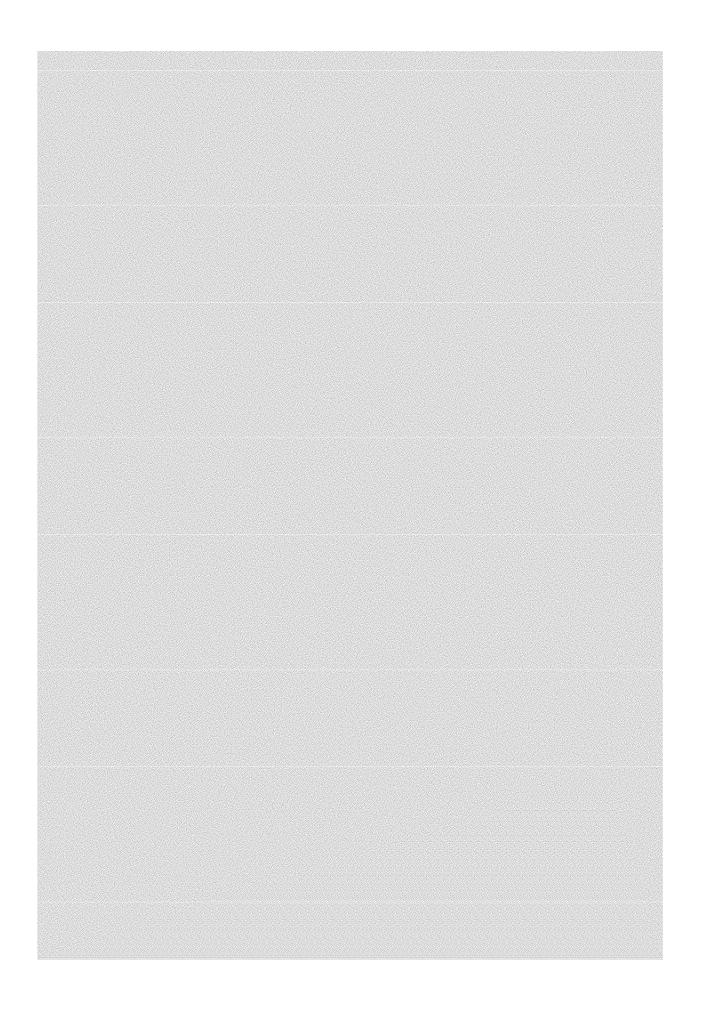
	Jan
Ave. dCd 1991-mid 1996	1.72
85th dCd 1991-mid 1996	2.17
Ave. Hardness 1991-mid 1996	646
Cd Standard 1991-mid 1996	1.20
Ave. monthly flows 1991-mid 1996 (cfs)	12
dCd Load 1991-mid 1996 lbs/day	0.12

1995   1996

3.00
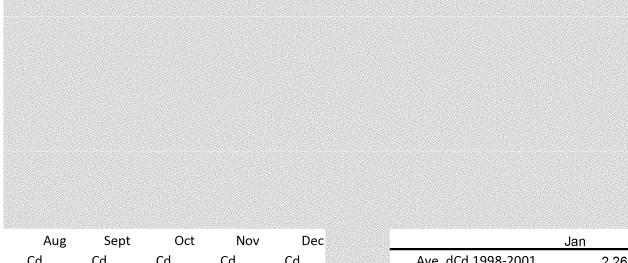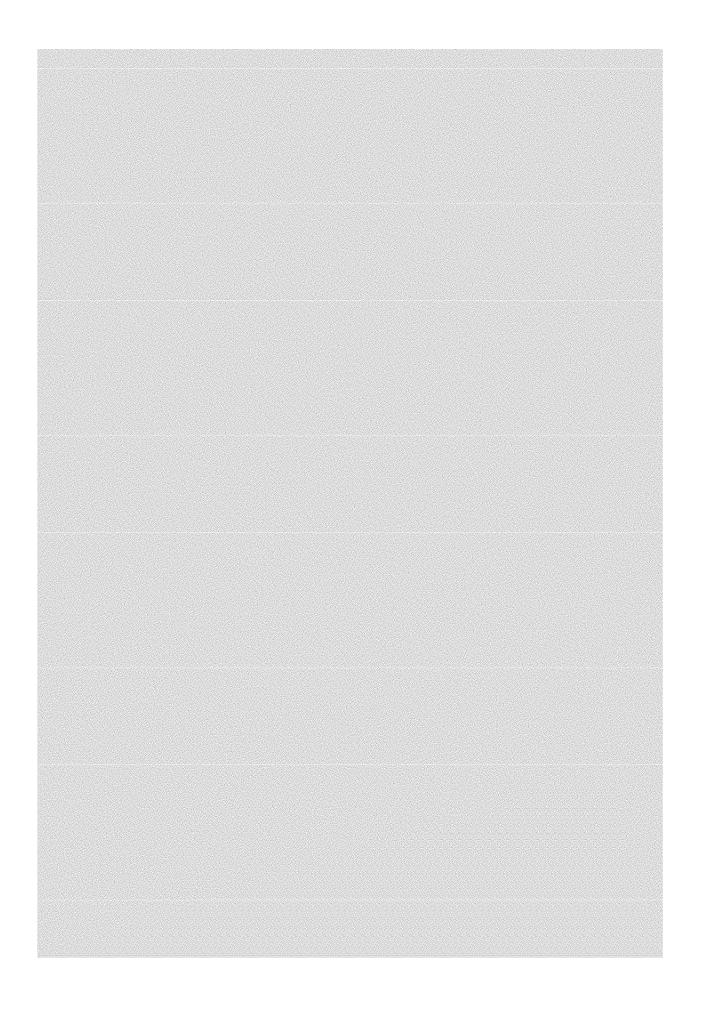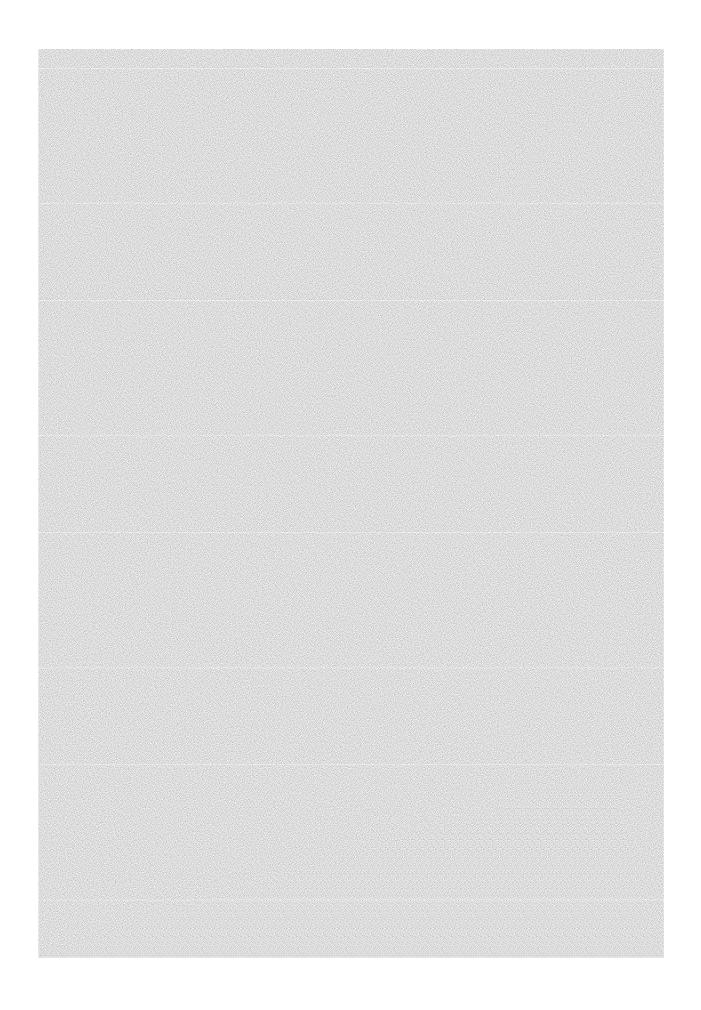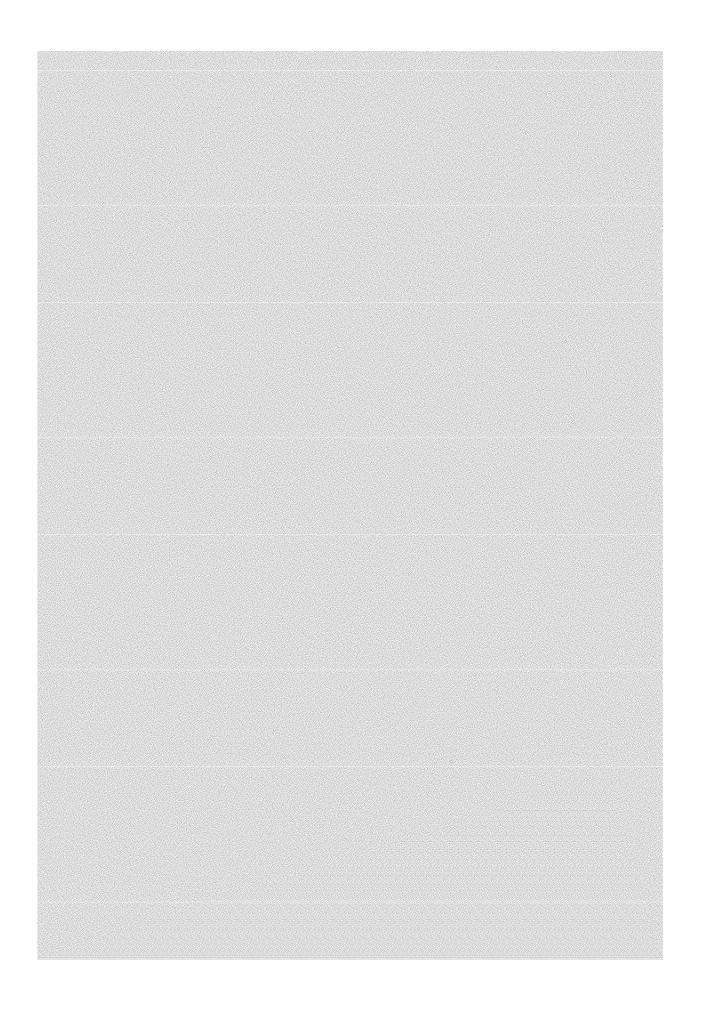
	Aug	Sept	Oct	Nov	Dec
	Cd	Cd	Cd	Cd	Cd
	2.00	1.40	2.00	1.50	2.00
	3.00	1.60	1.73	1.77	1.86
	7.00	1.29	7.00	6.10	3.00
		1.00	2.00	2.00	2.00
		6.00			
		2.20			
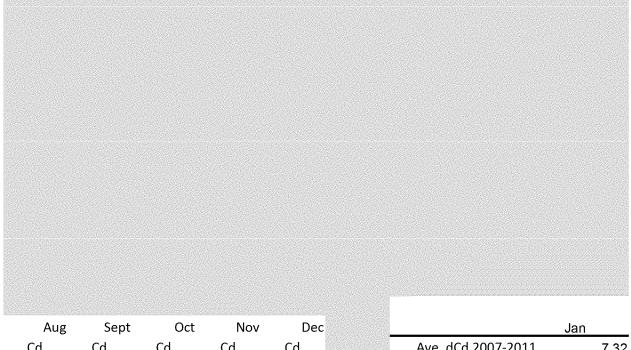
	Jan
Ave. dCd 1998-2001	2.26
85th dCd 1998-2001	2.54
Ave. Hardness 1998-2001	592
Cd Standard 1998-2001	1.62
Ave. monthly flows 1998-2001 (cfs)	13
dCd Load 1998-2001 lbs/day	0.16

Aug-Nov)
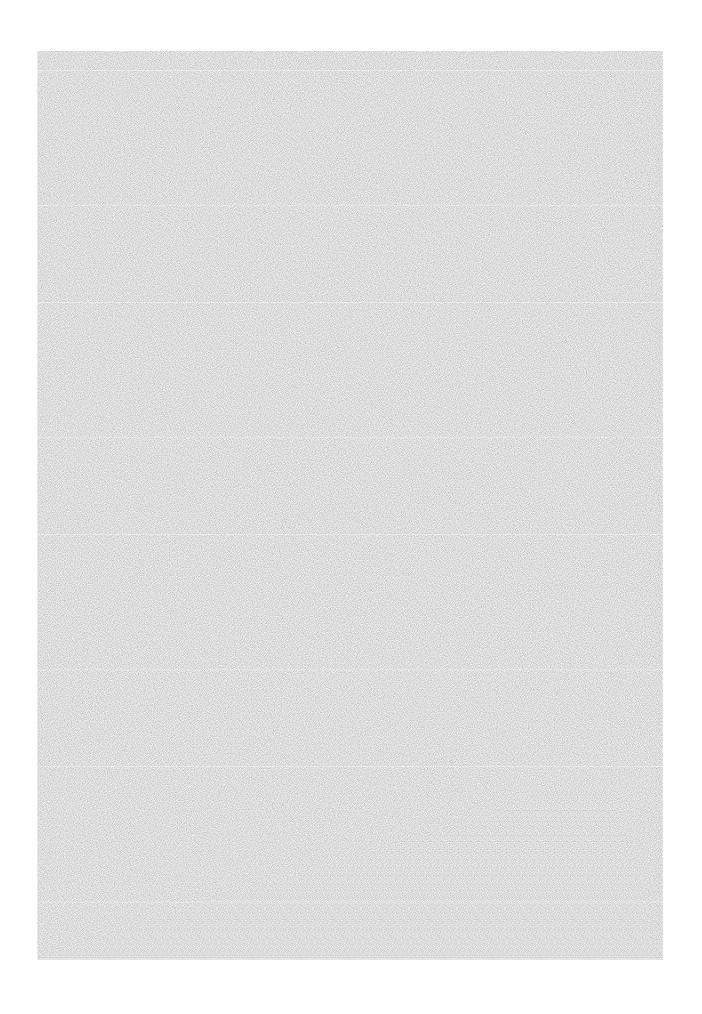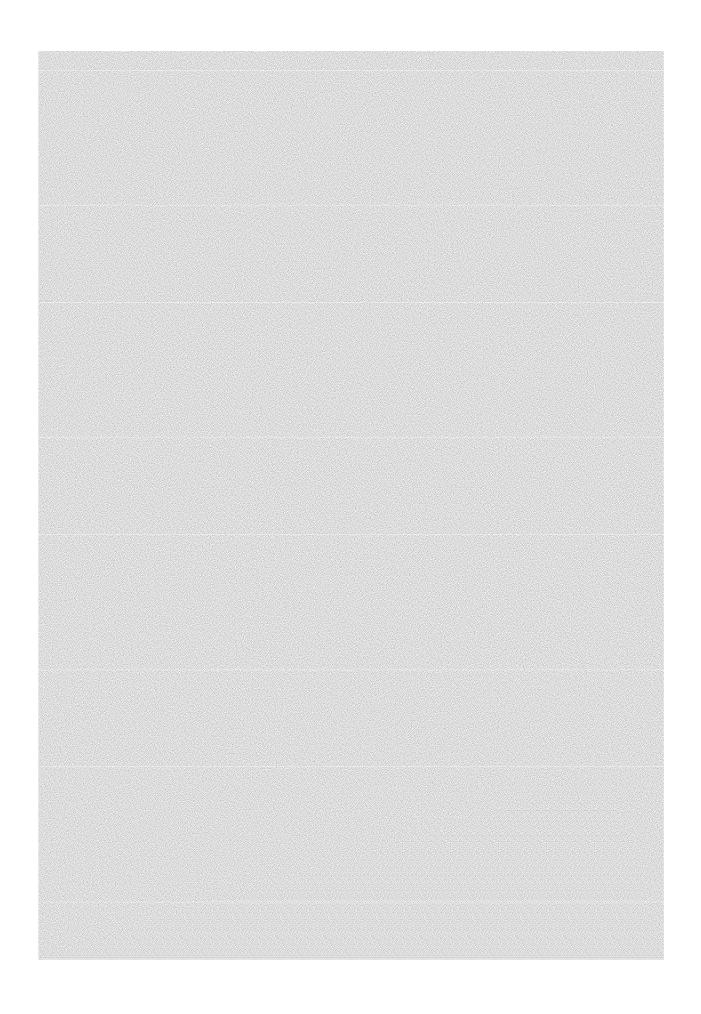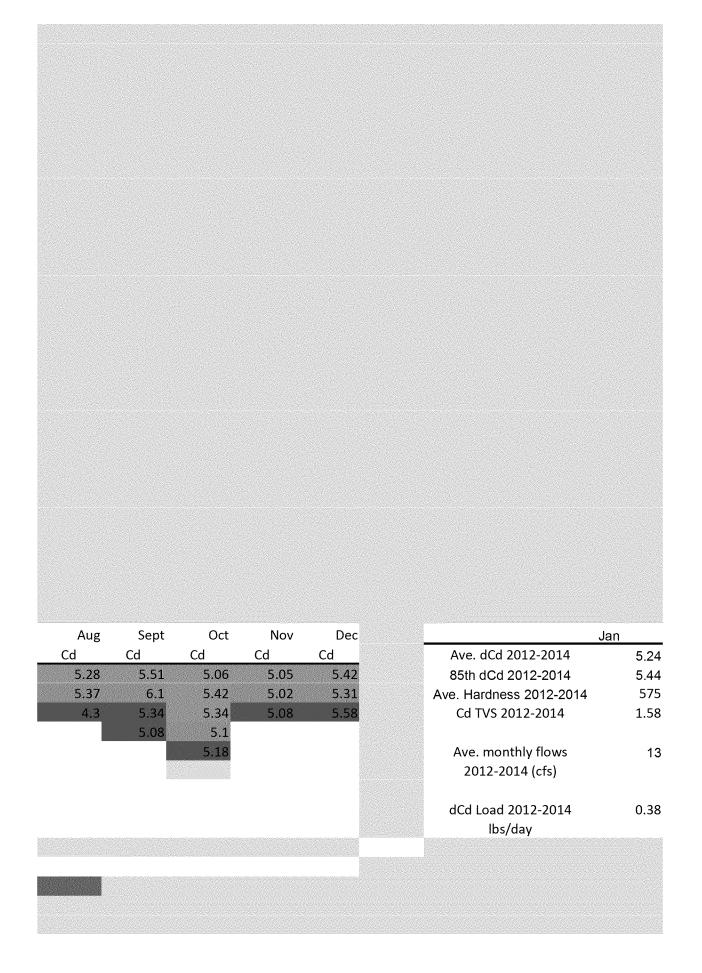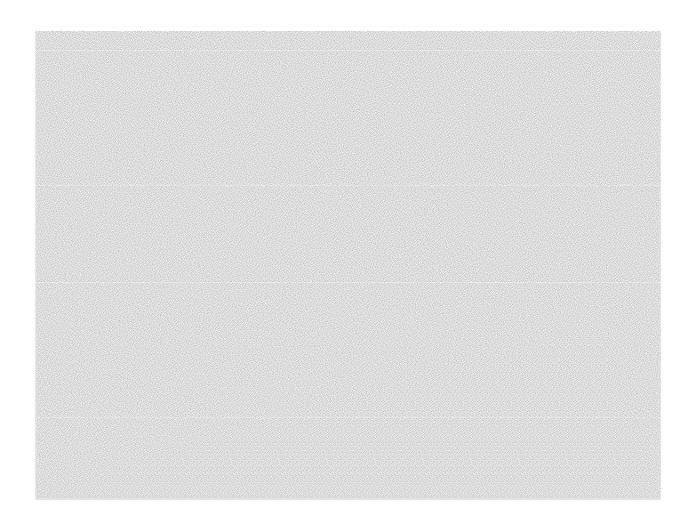
Aug	Sept	Oct	Nov	Dec
Cd	Cd	Cd	Cd	Cd
6.72	5	7.42	4.68	5.96
5.7	6.86	6.77	6.53	5.4
5.8	6.275	6.32	6.2	4.94
6.6	6.6	6.08	6.4	
5.57	5.675	6.91	6.7	
3.52	5.7	7	6.07	
5.6	4.825		5.74	
	5.9			

		Jan
Ave. dCd 2007-2011		7.32
85th dCd 2007-2011		8.00
Ave. Hardness 2007-2011		550
Cd TVS 2007-2011		1.53
Ave. monthly flows 2007-2011 (cfs)		13
dCd Load 2007-2011 lbs/day		0.52

2010	2011

	Aug	Sept	Oct	Nov	Dec
	Cd	Cd	Cd	Cd	Cd
	5.28	5.51	5.06	5.05	5.42
	5.37	6.1	5.42	5.02	5.31
	4.3	5.34	5.34	5.08	5.58
		5.08	5.1		
			5.18		

	Jan
Ave. dCd 2012-2014	5.24
85th dCd 2012-2014	5.44
Ave. Hardness 2012-2014	575
Cd TVS 2012-2014	1.58
Ave. monthly flows 2012-2014 (cfs)	13
dCd Load 2012-2014 lbs/day	0.38
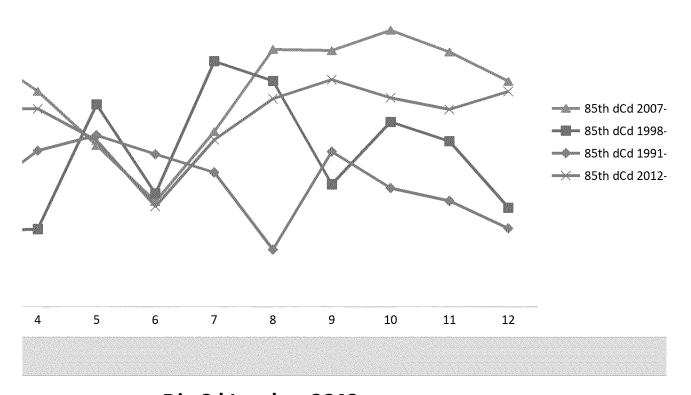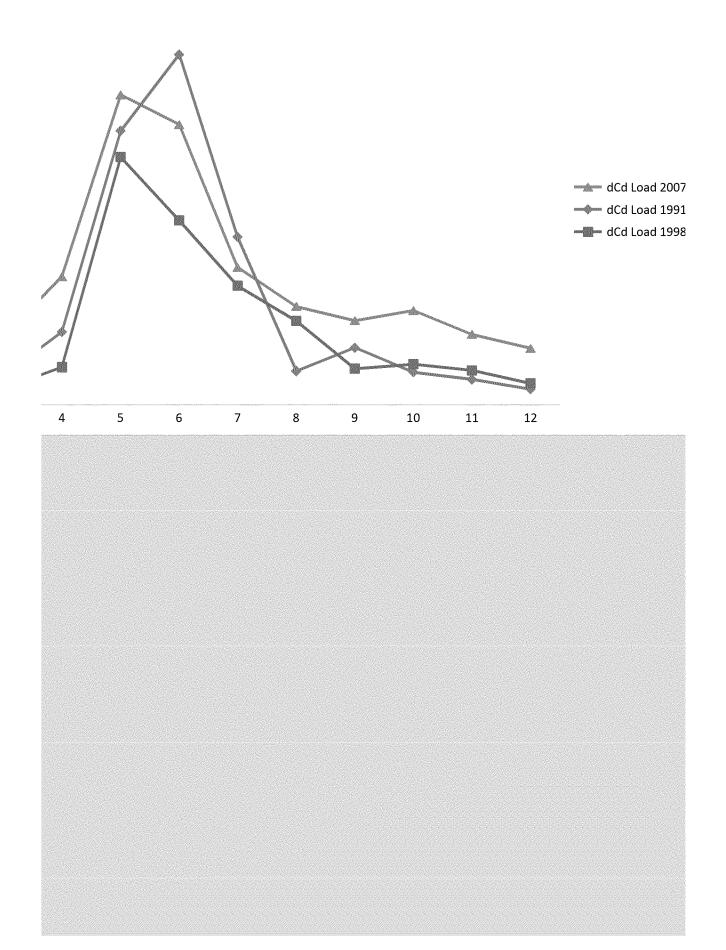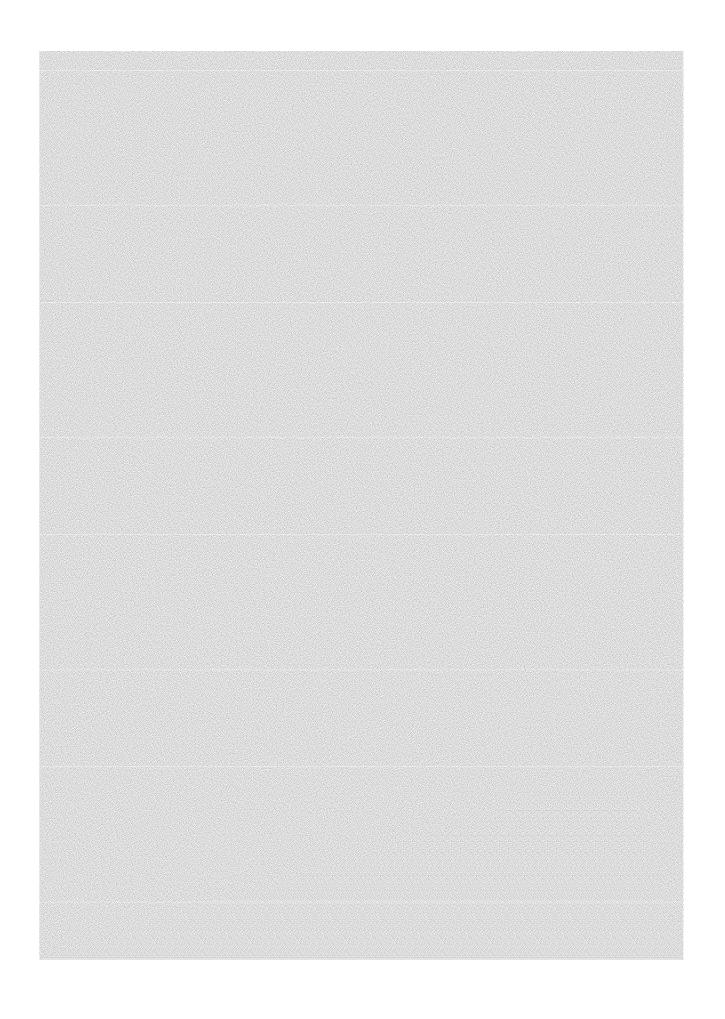
Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	2.61	2.42	3.28	3.45	2.99	2.62	1.45	3.49	2.55	2.24
	2.91	2.88	4.02	4.41	3.92	3.45	1.48	3.99	3.06	2.72
	622	622	381	178	173	182	308	384	577	130
	1.20	1.20	1.16	0.65	0.64	0.67	0.99	1.17	1.20	0.52
	14	17	30	107	158	87	32	22	17	16
	0.19	0.22	0.53	2.00	2.55	1.22	0.25	0.42	0.24	0.19

Dis Cd Conc. At CC48
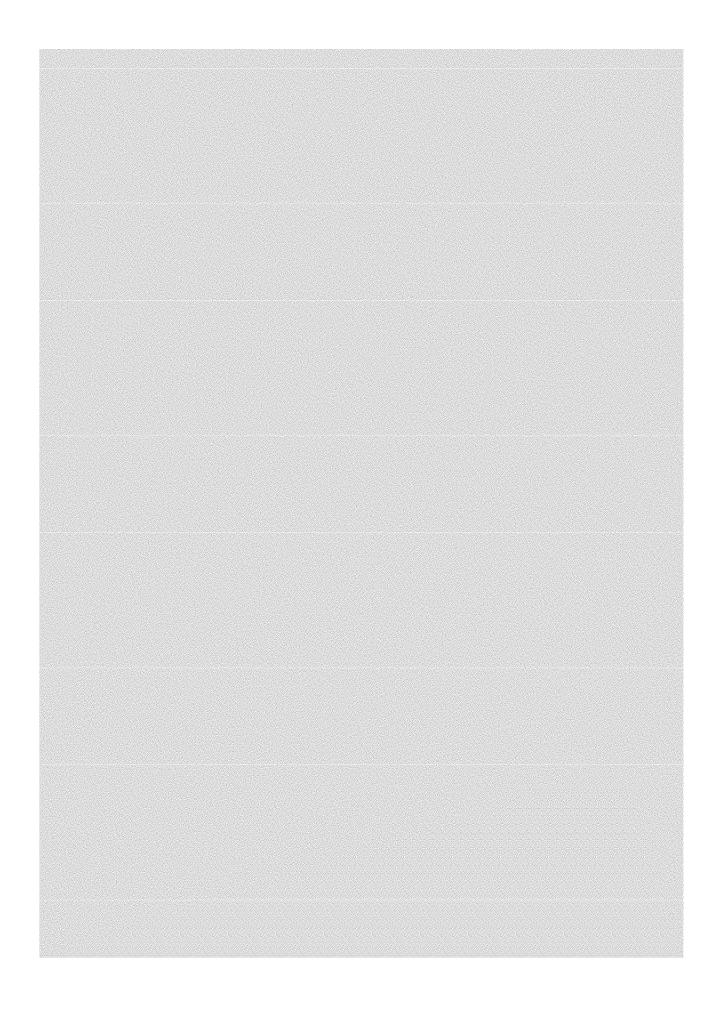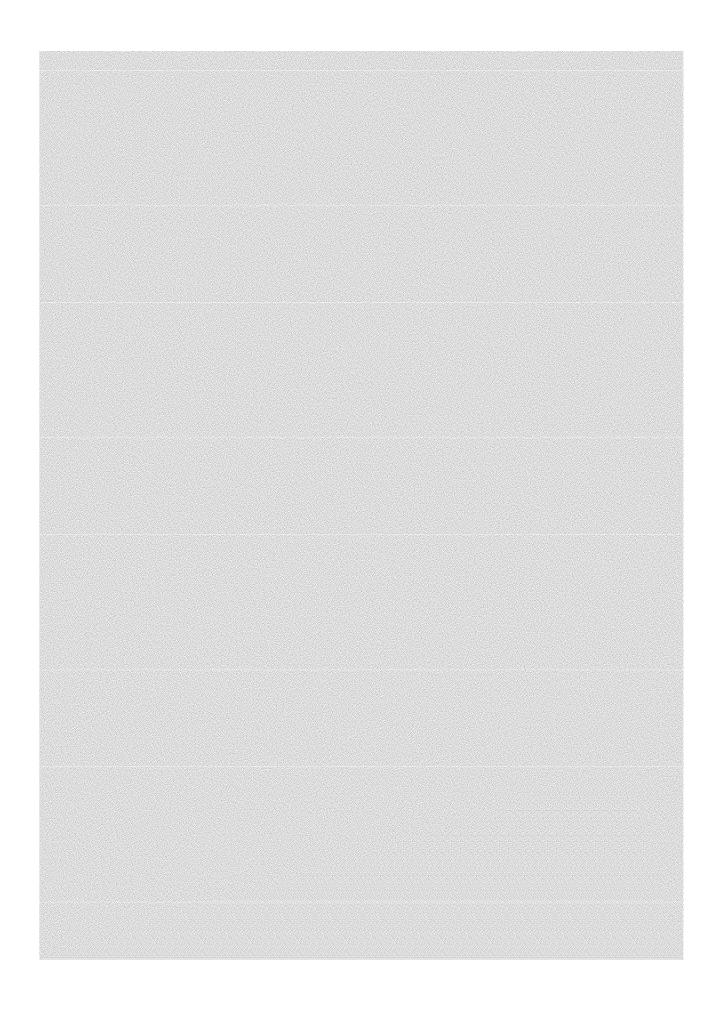
Dis Cd Load at CC48

Legend:
- dCd Load 2007
- dCd Load 1991
- dCd Load 1998

X-axis: 4, 5, 6, 7, 8, 9, 10, 11, 12
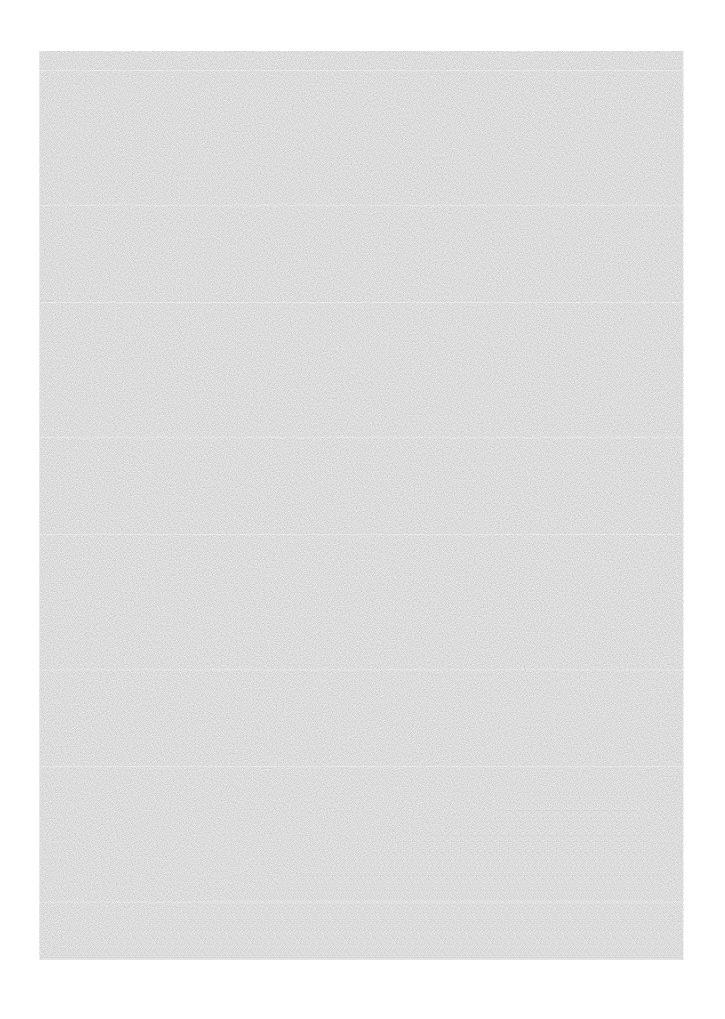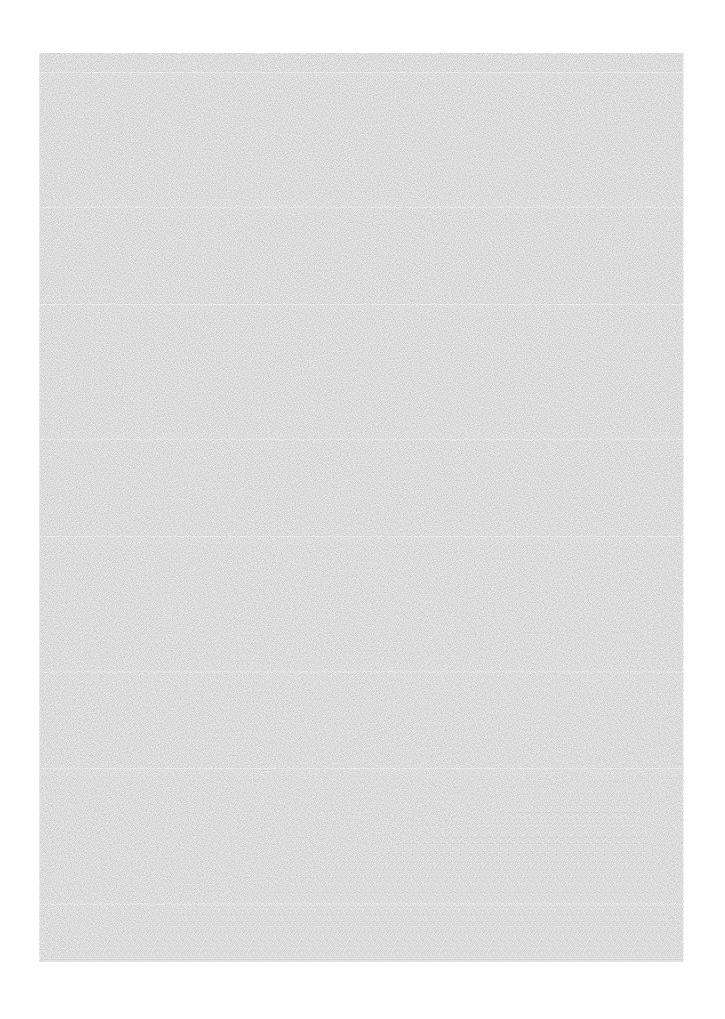
Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	1.85	1.53	1.79	3.11	2.22	3.29	4.00	2.25	3.18	2.84
	2.48	1.94	2.00	5.20	2.91	6.31	5.80	3.15	4.75	4.26
	575	503	431	150	135	212	387	414	520	457
	1.58	1.43	1.27	0.58	0.53	0.75	1.17	1.24	1.47	1.33
	12	14	29	108	113	49	28	22	17	16
	0.12	0.12	0.28	1.81	1.34	0.87	0.61	0.27	0.30	0.25
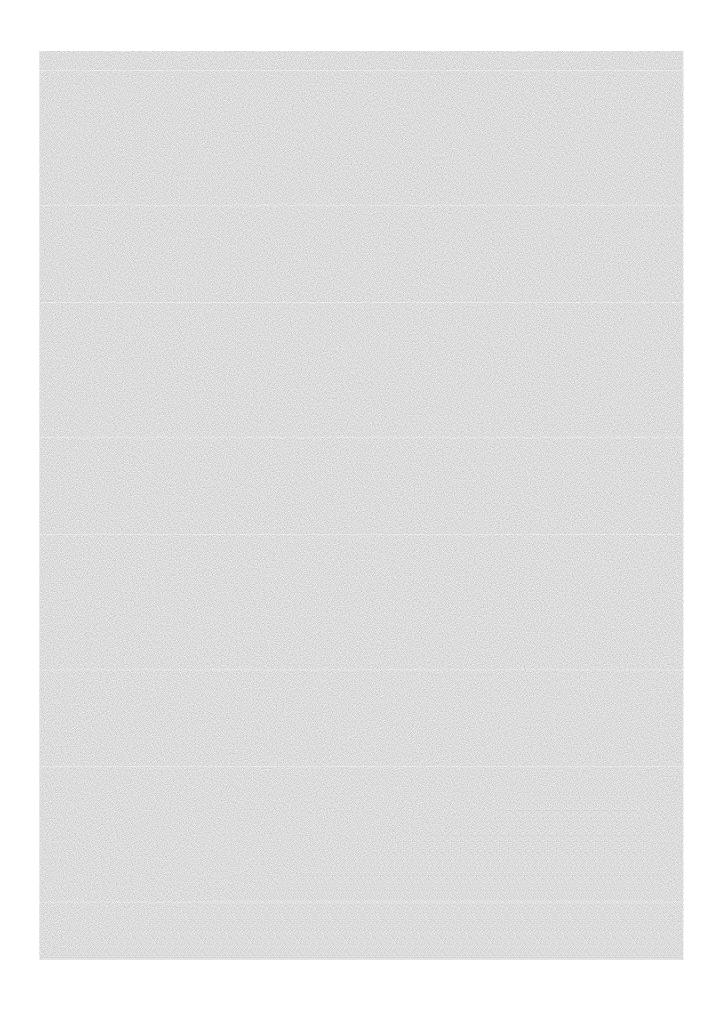
Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	5.62	5.90	5.20	3.55	2.40	3.82	5.64	5.86	6.75	6.05
	6.15	6.56	5.54	4.15	2.71	4.50	6.61	6.58	7.11	6.55
	538	539	439	153	111	234	375	458	456	490
	1.50	1.51	1.29	0.59	0.46	0.80	1.15	1.33	1.33	1.40
	13	16	33	118	158	49	24	19	19	16
	0.39	0.50	0.94	2.26	2.04	1.00	0.72	0.62	0.69	0.51

Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	5.19	4.99	4.55	3.66	2.26	3.63	4.98	5.51	5.22	5.05
	5.34	5.08	5.09	4.28	2.58	4.29	5.34	5.83	5.37	5.07
	559	564	361	168	139	292	375	462	434	479
	1.55	1.56	1.12	0.63	0.54	0.95	1.15	1.34	1.28	1.38
	14	17	39	95	80	28	21	27	23	16
	0.38	0.46	0.96	1.87	0.98	0.55	0.56	0.81	0.63	0.42

Dec

1.69
2.02
596
1.20

13

0.12

·2011
·2001
·mid 1996
·2014

-2011

-mid 1996

-2001
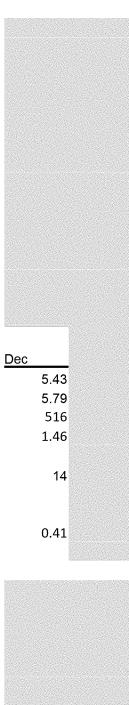
Dec
2.22
2.55
557
1.54
13
0.16

Dec
5.43
5.79
516
1.46
14
0.41

Dec
5.44
5.53
531
1.49
13
0.39

DATE	CU_DIS
2/11/1991	40.00
3/28/1991	20.00
4/23/1991	250.00
09/05/91	57.00
9/6/1991	73.00
9/7/1991	90.00
9/9/1991	86.00
9/10/1991	87.00
6/23/1992	110.00
6/24/1992	110.00
6/25/1992	120.00
07/23/92	-9.00
9/20/1992	-9.00
10/14/1992	41.00
10/15/1992	44.00
7/20/1993	110.00
7/21/1993	110.00
11/2/1993	30.00
3/16/1994	50.00
6/30/1994	150.00
9/29/1994	47
10/12/1994	98.30
11/9/94	40.00
11/9/1994	56.20
12/13/1994	41.9
1/18/1995	38.9
2/15/1995	49.5
3/1/1995	52.4
3/15/1995	
4/6/1995	
4/12/1995	120.00
4/12/1995	68.6
4/19/1995	59.2
5/3/1995	58.8
5/10/1995	45.4
5/22/1995	45.20
5/31/1995	52.50
6/7/1995	60.60
6/14/1995	50.20
6/21/1995	94.00
6/21/1995	57.80
6/28/1995	61.20
7/5/1995	61.90

Jan. Cu	Feb Cu	Mar Cu	Apr Cu	May Cu	June Cu	July Cu
38.9	40.00	20.00	250.00	58.8	110.00	110.00
44.00	49.5	50.00	94.30	45.4	110.00	110.00
27.5	31.70	52.4	59.2	45.20	120.00	61.90
		30.00	54.40	52.50	150.00	50.60
		29.60	91.00	95.70	60.60	52.80
			92.60	80.20	50.20	
			60.00	85.70	75.90	
				94.00	61.20	
					11.90	
					33.40	
					66.00	
					35.70	
					88.20	

COLOR CODE: | | 1991 | 1992 | 1993 | 1994 |

Average of same day results

Date	Value
7/12/1995	50.60
7/19/1995	52.80
8/2/1995	51.00
8/16/1995	93
9/6/1995	5.00
9/13/1995	77
10/11/1995	38.3
11/15/1995	13.9
11/29/1995	27.00
12/13/1995	29.3
1/16/1996	44.00
1/17/1996	27.5
2/14/1996	31.70
3/13/1996	30.00
3/20/1996	29.60
4/3/1996	54.40
4/9/1996	91.00
4/10/1996	92.60
4/17/1996	60.00
5/1/1996	95.70
5/8/1996	80.20
5/15/1996	85.70
5/21/1996	94.00
5/29/1996	0.00
6/5/1996	11.90
6/12/1996	33.40
06/18/96	66.00
6/19/1996	35.70
6/26/1996	88.20
7/3/1996	77.10
7/10/1996	81.40
7/12/1996	89.20
7/16/1996	96.00
8/7/1996	34.60
8/14/1996	33.00
08/14/96	18.00
8/21/1996	34.00
9/18/1996	42.80
10/1/1996	30.60
10/16/1996	37.30
10/18/96	40.00
11/07/96	26.00
11/13/1996	40.00
11/19/96	37.74
12/13/96	3.00
12/18/1996	44.80
1/7/1997	30.00
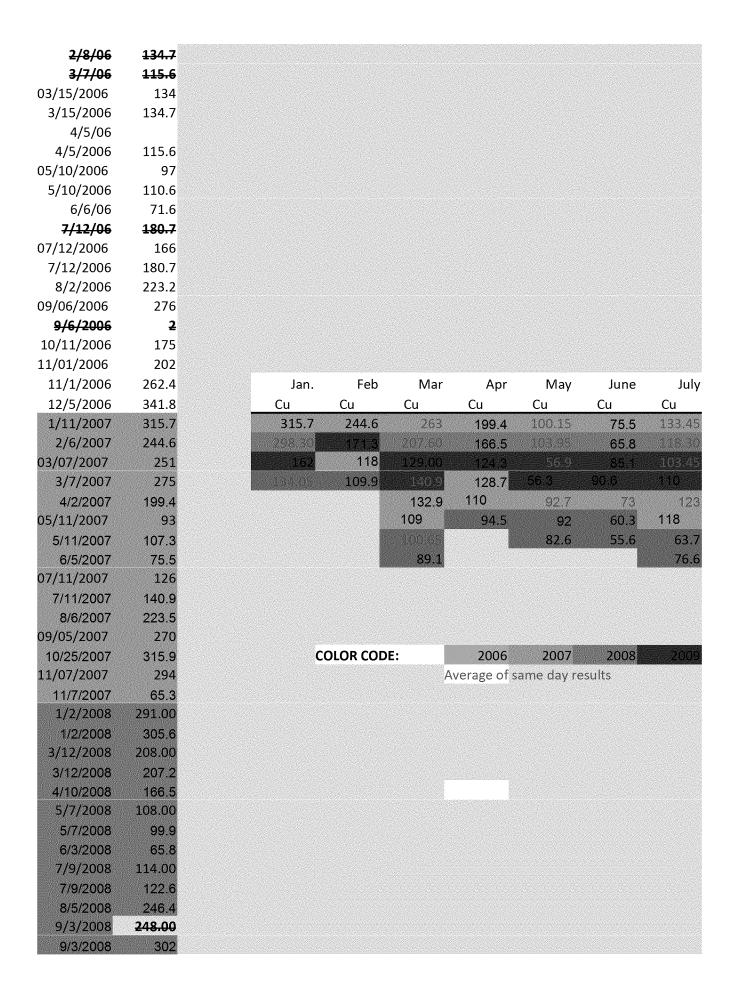
01/09/97	27.68
1/15/1997	31.60
01/30/97	21.71
02/05/97	26.00
2/12/1997	29.70
02/25/97	22.09
3/5/1997	180.00
3/12/1997	35.00
3/19/1997	67.00
03/25/97	44.19
4/2/1997	64.70
04/11/97	39.00
4/16/1997	44.10
04/28/97	57.26
4/30/1997	45.50
5/7/1997	100.00
05/14/97	118.28
5/21/1997	88.40
05/21/97	109.67
5/28/1997	96.60
05/29/97	114.58
6/4/1997	81.30
06/05/97	87.50
06/10/97	120.00
6/11/1997	69.90
6/11/1997	2.40
06/11/97	101.71
06/17/97	87.81
6/18/1997	65.10
6/18/1997	1.90
6/25/1997	63.20
6/25/1997	2.20
06/25/97	101.02
7/2/1997	60.90
7/2/1997	2.20
07/02/97	89.67
7/9/1997	100.00
07/15/97	93.14
7/16/1997	76.70
7/16/1997	2.20
07/29/97	86.87
8/13/1997	66.10
08/13/97	80.00
08/13/97	75.29
08/26/97	0.00
08/26/97	0.00
08/26/97	0.00

Date	Cu
08/29/97	50.00
9/11/1997	14.00
9/11/97	40.60
9/17/1997	43.20
09/25/97	80.21
10/08/97	50.00
10/15/1997	46.90
10/22/97	51.95
11/12/1997	36.00
11/12/1997	35.60
11/26/97	31.49
12/03/97	40.00
12/17/1997	35.50
12/23/97	31.02
1/7/1998	40.00
1/14/1998	37.60
02/04/98	30.00
2/11/1998	35.00
02/12/98	30.43
3/4/1998	34.30
3/5/1998	28.00
03/16/98	30.42
3/18/1998	29.30
4/1/1998	37.30
04/08/98	50.00
4/15/1998	-9.00
04/23/98	46.36
4/29/1998	46.90
5/5/1998	66.20
05/06/98	83.16
5/7/1998	77.00
5/13/1998	71.10
5/27/1998	71.1
6/3/1998	36.00
6/10/1998	58.70
06/10/98	80.00
6/17/1998	57.40
6/24/1998	59.10
7/1/1998	67.00
7/8/1998	60.80
7/15/1998	-9.00
7/22/1998	80.50
08/05/98	50.00
8/26/1998	-9.00
9/2/1998	39.00
9/9/1998	29.00
9/16/1998	26.90

Jan. Cu	Feb Cu	Mar Cu	Apr Cu	May Cu	June Cu	July Cu
40.00	30.00	34.30	37.30	66.20	36.00	67.00
37.60	35.00	28.00	50.00	83.16	69.35	60.80
24.00	30.43	30.42	46.36	77.00	57.40	80.50
28.70	5.00	29.30	46.90	71.10	59.10	2.00
32.00	19.11	24.00	69.30	71.1	96.13	128.82
34.00	23.60	31.90	54.00	98.20	90.10	22.36
47.00	25.00	27.00	54.30	110.00	64.00	110.00
	43.60	32.60	43.14	110.00	90.00	69.00
21.00	21.00	11.00				
			40.00			

COLOR CODE: 1998 1999 2000 2001

1999 data when CC not treated is not included
Average of same day results

Date	Value	Note
09/30/98	26.15	
10/07/98	30.00	
10/14/1998	28.30	
11/3/1998	35.00	
11/03/98	42.49	
11/18/1998	33.20	
1/6/1999	24.00	
1/6/1999	24.00	
1/13/1999	28.70	
02/04/99	<10	
02/09/99	19.11	
2/24/1999	23.60	
3/3/1999	24.00	
3/17/1999	31.90	
4/1/1999	69.30	
04/07/99	54.00	
4/21/1999	54.30	
04/29/99	43.14	
5/6/1999	-9.00	
05/26/99	98.20	
06/09/99	100.00	
06/09/99	92.26	
6/23/1999	90.10	
07/07/99	2.00	
07/15/99	128.82	
07/29/99	22.36	
8/4/1999	140.00	Cement Creek not treated
8/4/99	140.00	Cement Creek not treated
08/17/99	149.42	Cement Creek not treated
9/1/1999	130.00	Cement Creek not treated
9/13/1999	212.50	Cement Creek not treated
10/06/99	78.00	Cement Creek not treated
10/14/1999	183.60	Cement Creek not treated
11/3/99	110.00	Cement Creek not treated
11/17/1999	140.80	Cement Creek not treated
12/1/99	33.00	
12/15/1999	34.40	
1/5/00	32.00	
1/12/2000	34.00	
2/2/00	25.00	
2/28/2000	43.60	
3/1/00	27.00	
3/15/2000	32.60	
4/5/00	11.00	
5/3/00	110.00	
6/7/00	64.00	
7/5/00	110.00	

Date	Value
8/2/00	62.00
9/6/00	100.00
10/4/00	113.00
11/1/00	84.00
12/6/00	40.00
1/3/01	47.00
2/6/01	21.00
3/14/01	21.00
4/4/01	40.00
5/2/01	110.00
6/6/01	90.00
7/6/01	69.00
8/1/01	110.00
9/5/01	32.00
10/3/01	31.00
11/7/01	25.00
12/5/01	30.00
1/2/02	22.00
2/6/02	25.00
3/6/02	100.00
4/3/02	150.00
5/1/02	100.00
6/5/02	69.90
6/27/2002	31.30
7/3/02	27.00
7/17/2002	<1
8/7/02	40.00
8/14/2002	24.10
9/4/02	29.00
9/18/2002	38.10
10/2/02	80.00
10/25/2002	45.30
11/6/02	30.00
11/12/2002	31.9
12/4/02	40.00
12/8/2002	31.3
1/8/2003	26.1
1/9/03	24.00
2/1/2003	45.6
2/5/03	40.00
3/3/03	60.40
3/9/2003	33.2
4/24/2003	101.8
5/7/2003	126.75
5/7/2003	116.6
6/2/2003	73.1
7/2/2003	101.50

Date	Value
7/2/2003	93.90
8/14/2003	119.60
9/11/2003	
9/11/2003	98.10
10/4/2003	65.70
11/6/03	59.00
12/29/2003	-9.00
1/16/2004	62.20
2/13/2004	74.90
3/3/04	58.00
3/3/2004	60.4
4/16/2004	112.60
5/5/04	111.00
5/5/2004	112.60
5/28/2004	84.20
6/17/2004	62.40
7/7/04	58.00
7/7/2004	72.40
8/19/2004	114.50
9/1/04	81.00
9/15/2004	128.80
10/14/04	89.20
11/10/04	114.00
11/10/2004	107.90
12/8/2004	107.20
1/20/2005	64.00
2/15/05	59.80
3/2/2005	83
3/13/2005	62.20
4/9/05	88.60
5/4/2005	92
5/4/05	95.90
6/9/2005	78.6
7/6/2005	68
07/06/2005	68
7/6/2005	72.9
8/10/2005	95
9/14/05	217.3
9/15/2005	**223**
09/15/2005	223
10/13/05	183.6
11/2/05	189.4
11/2/2005	178
12/20/05	163.7
1/6/06	167
01/06/2006	157
2/8/06	145.5

Date	Value
2/8/06	~~134.7~~
3/7/06	~~115.6~~
03/15/2006	134
3/15/2006	134.7
4/5/06	
4/5/2006	115.6
05/10/2006	97
5/10/2006	110.6
6/6/06	71.6
7/12/06	~~180.7~~
07/12/2006	166
7/12/2006	180.7
8/2/2006	223.2
09/06/2006	276
9/6/2006	2
10/11/2006	175
11/01/2006	202
11/1/2006	262.4
12/5/2006	341.8
1/11/2007	315.7
2/6/2007	244.6
03/07/2007	251
3/7/2007	275
4/2/2007	199.4
05/11/2007	93
5/11/2007	107.3
6/5/2007	75.5
07/11/2007	126
7/11/2007	140.9
8/6/2007	223.5
09/05/2007	270
10/25/2007	315.9
11/07/2007	294
11/7/2007	65.3
1/2/2008	291.00
1/2/2008	305.6
3/12/2008	208.00
3/12/2008	207.2
4/10/2008	166.5
5/7/2008	108.00
5/7/2008	99.9
6/3/2008	65.8
7/9/2008	114.00
7/9/2008	122.6
8/5/2008	246.4
9/3/2008	~~248.00~~
9/3/2008	302

Jan. Cu	Feb Cu	Mar Cu	Apr Cu	May Cu	June Cu	July Cu
315.7	244.6	263	199.4	100.15	75.5	133.45
298.30	171.3	207.60	166.5	103.95	65.8	118.30
162	118	129.00	124.3	56.9	85.1	103.45
134.05	109.9	140.9	128.7	56.3	90.6	110
		132.9	110	92.7	73	123
		109	94.5	92	60.3	118
		100.65		82.6	55.6	63.7
		89.1				76.6

COLOR CODE: 2006   2007   2008   2009

Average of same day results

10/6/2008	277.7
11/7/2008	-9.00
11/7/2008	230.7
12/3/2008	210.9
1/8/2009	162
1/8/2009	13.8
2/6/2009	171.3
3/3/2009	129.00
3/4/2009	141
3/4/2009	140.8
4/6/2009	124.3
5/13/2009	51
5/13/2009	62.8
5/19/2009	56.3
6/2/2009	85.1
6/16/2009	90.6
6/16/2009	
6/16/2009	
6/16/2009	
7/8/2009	101
7/8/2009	105.9
7/14/2009	
7/14/2009	110
7/14/2009	
7/14/2009	
8/12/2009	255.3
8/18/2009	221
8/18/2009	
8/18/2009	
8/18/2009	224
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	219
9/16/2009	230.1
9/22/2009	189
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	213.2
11/4/2009	165
11/4/2009	165.00
11/5/2009	1.2
11/17/2009	
11/17/2009	152
11/17/2009	

Date	Value
12/1/2009	1.1
2/17/2010	
2/17/2010	118
2/17/2010	
2/17/2010	119
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	132.9
3/17/2010	109
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	128.7
4/13/2010	
4/13/2010	110
4/13/2010	
4/13/2010	110
5/5/2010	98.4
5/5/2010	87.00
6/2/2010	77.6
6/2/2010	69.5
6/2/2010	72
6/2/2010	
6/2/2010	
7/8/2010	133
7/8/2010	113.00
7/13/2010	
7/13/2010	118
7/13/2010	
8/10/2010	184.1
9/9/2010	185.3
9/9/2010	174.00
9/14/2010	
9/14/2010	163
9/14/2010	
9/14/2010	166
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	178.1
11/2/2010	
11/2/2010	140
11/2/2010	
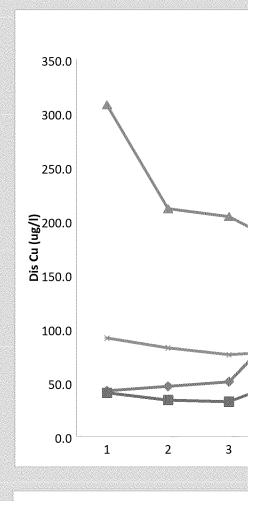
Date	Value
11/2/2010	
11/2/2010	
11/2/2010	**134**
11/2/2010	
11/2/2010	
11/3/2010	155.1
11/3/2010	155.00
12/7/2010	131.1
1/5/2011	134.1
1/5/2011	134.00
2/11/2011	109.9
3/9/2011	103.3
3/9/2011	98
3/15/2011	89.1
4/6/2011	94.5
5/4/2011	92
5/8/2011	82.6
6/3/2011	60.3
6/14/2011	55.6
7/5/2011	63.7
7/19/2011	76.6
8/1/2011	112.1
8/16/2011	145
9/7/2011	159.1
9/7/2011	157
9/13/2011	148
10/7/2011	147.5
10/18/2011	139
11/2/2011	124
11/2/2011	139.4
12/7/2011	120
1/5/2012	102.6
2/9/2012	88.6
3/7/2012	82
4/3/2012	80.7
5/2/2012	74.2
5/15/2012	61.2
6/2/2012	50.8
8/6/2012	89.1
9/4/2012	93.2
10/2/2012	74.4
10/3/2012	86.9
10/4/2012	73.4
11/7/2012	67.4
12/10/2012	73.6
1/7/2013	63.9
2/7/2013	60.7

	Jan. Cu	Feb Cu	Mar Cu	Apr Cu	May Cu	June Cu	July Cu
	102.6	88.6	82	80.7	74.2	50.8	73.3
	63.9	60.7	59.6	76.4	61.2	62.9	43.7
	65.5	67.8	62.2	69.8	101.8	35.6	
					79.3		
					65.4		

COLOR CODE: 2012   2013   2014

Average of same day results
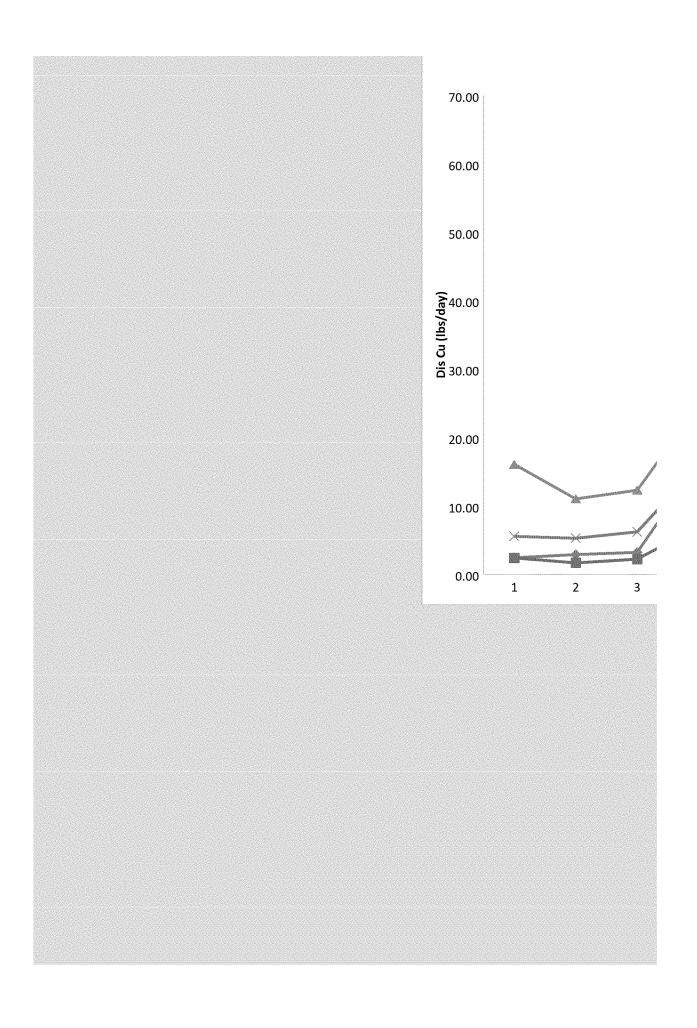
Date	Value
3/11/2013	59.6
4/10/2013	76.4
5/7/2013	101.8
5/14/2013	79.3
6/5/2013	62.9
7/7/2013	73.3
8/4/2013	87.8
9/10/2013	106.4
10/2/2013	102.2
11/8/2013	83
12/13/2013	75.1
1/8/2014	65.5
2/7/2014	67.8
3/5/2014	62.2
4/10/2014	69.8
5/6/2014	65.4
6/6/2014	35.6
7/1/2014	43.7
8/1/2014	75
9/5/2014		rain event, other parameters were outliers, didn't use
9/23/2014	
10/2/2014	102
11/7/2014	84.7
12/5/2014	92.4

	Aug	Sept	Oct	Nov	Dec
	Cu	Cu	Cu	Cu	Cu
	51.00	57.00	41.00	30.00	41.9
	93	73.00	44.00	48.10	29.3
		90.00	98.30	13.9	
		86.00	38.3	27.00	
		87.00			
		47			
		5.00			
		77			
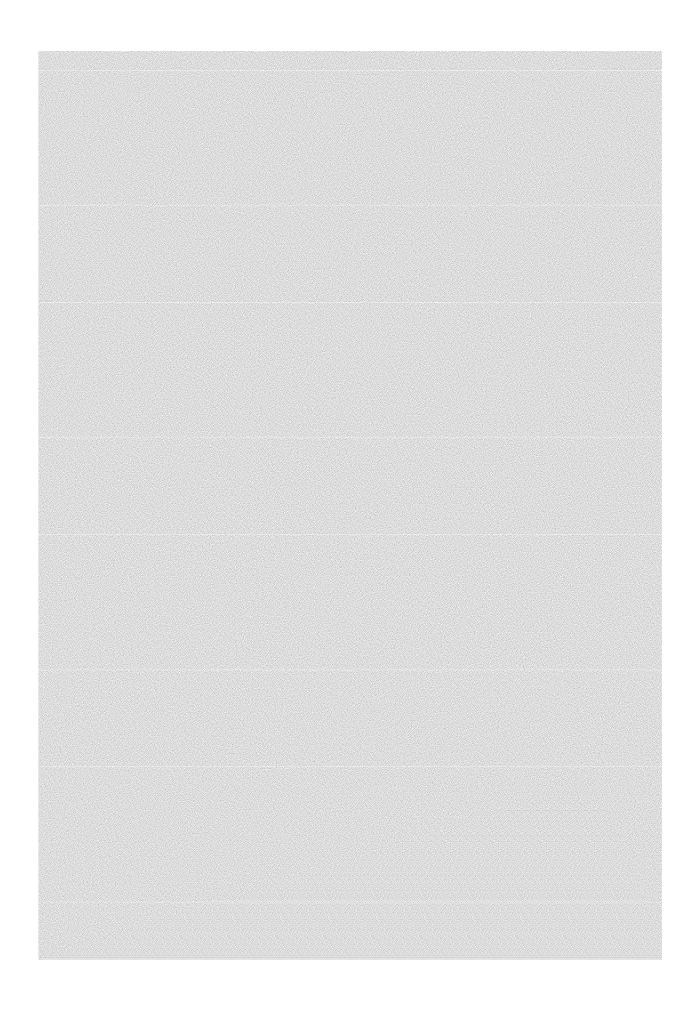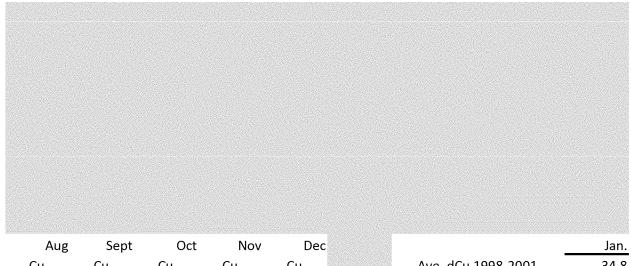
	Jan.
Ave. dCu 1991-mid 1996	36.8
85th dCu 1991-mid 1996	42.5
Ave. Hardness 1991-mid 1996	646
Cu TVS 1991-mid 1996	44.1
Ave. monthly flows 1991-mid 1996 (cfs)	12.44
dCu Load 1991-mid 1996 lbs/day	2.47

1995   1996
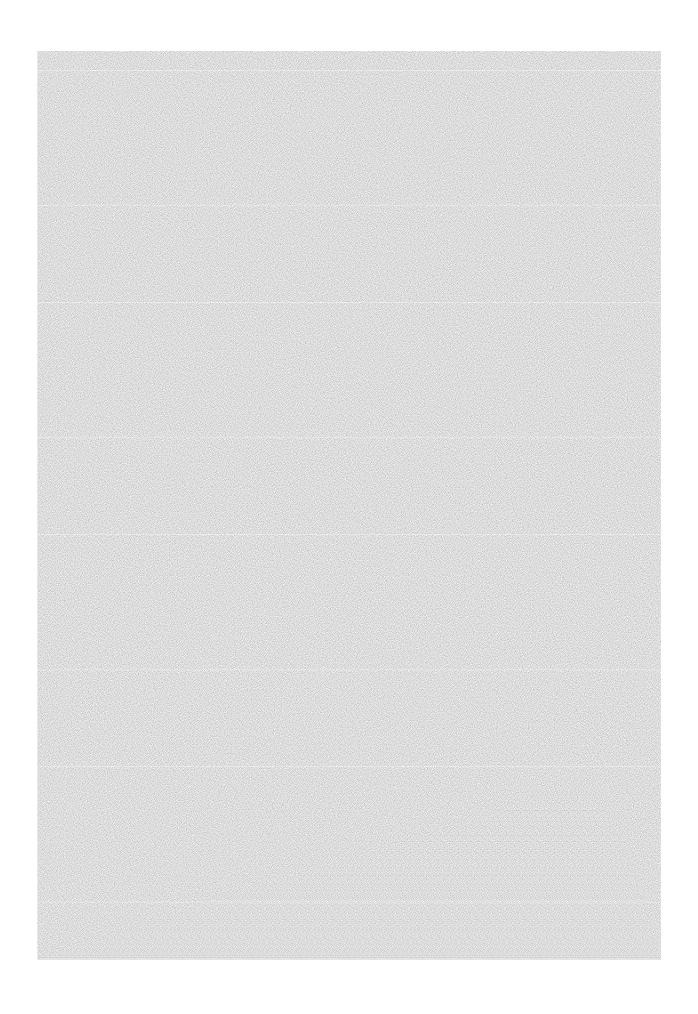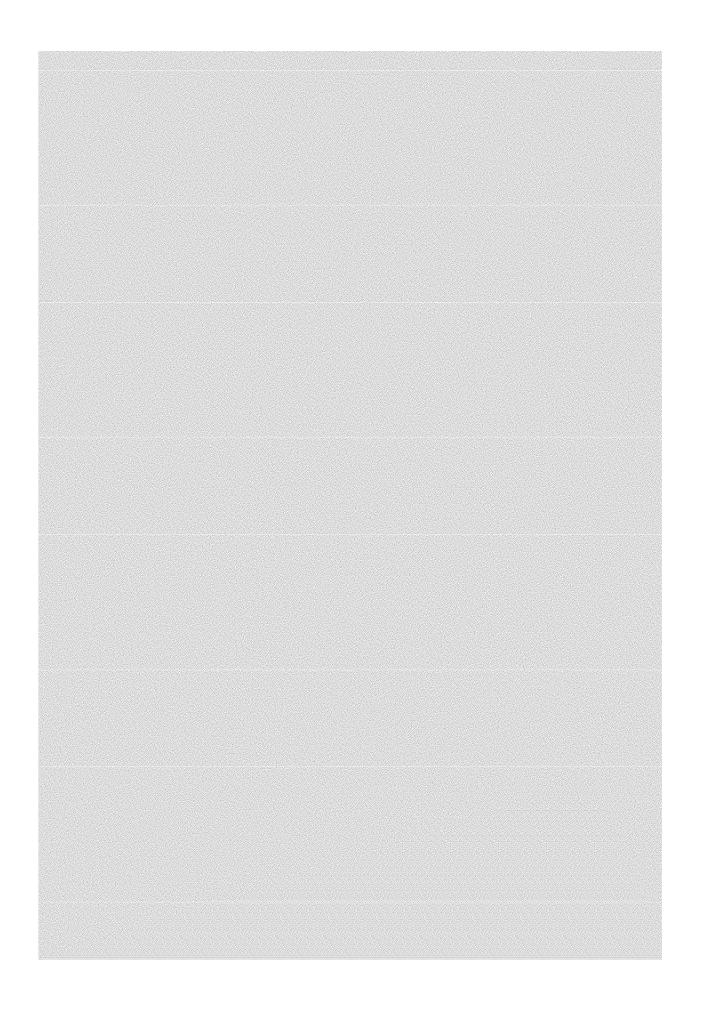
	Aug	Sept	Oct	Nov	Dec
	Cu	Cu	Cu	Cu	Cu
	50.00	39.00	30.00	38.75	33.00
	62.00	29.00	28.30	33.20	34.40
	110.00	26.90	113.00	84.00	40.00
		26.15	31.00	25.00	30.00
		100.00			
		32.00			
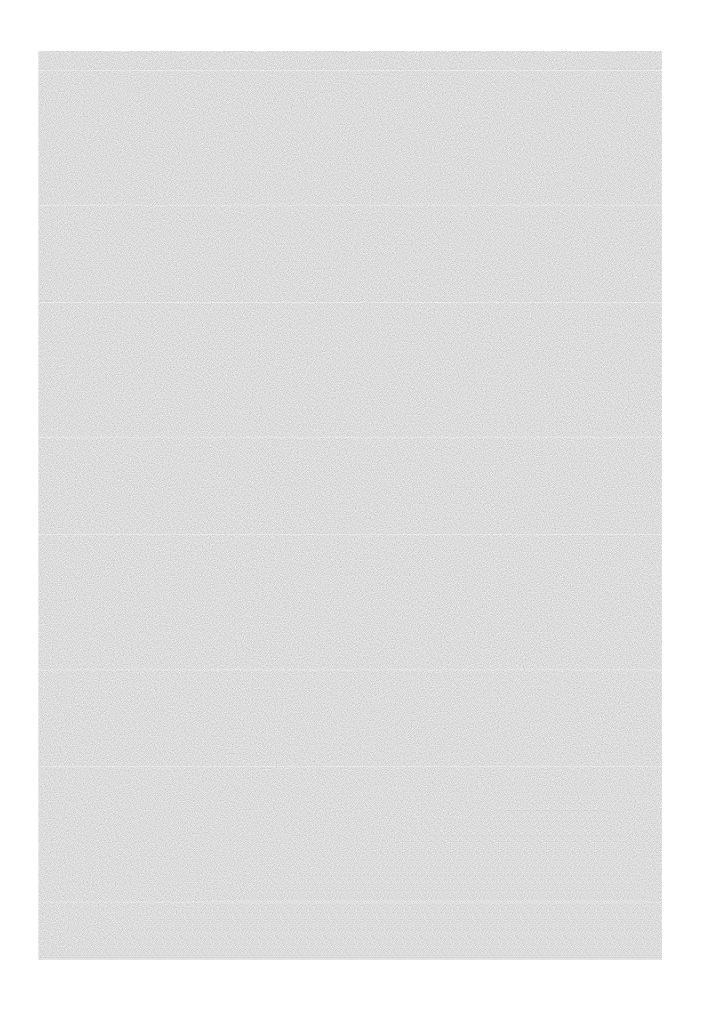
	Jan.
Ave. dCu 1998-2001	34.8
85th dCu 1998-2001	40.7
Ave. Hardness 1998-2001	592
Cu TVS 1998-2001	40.9
Ave. monthly flows 1998-2001 (cfs)	13
dCu Load 1998-2001 lbs/day	2.44

(Aug-Nov)
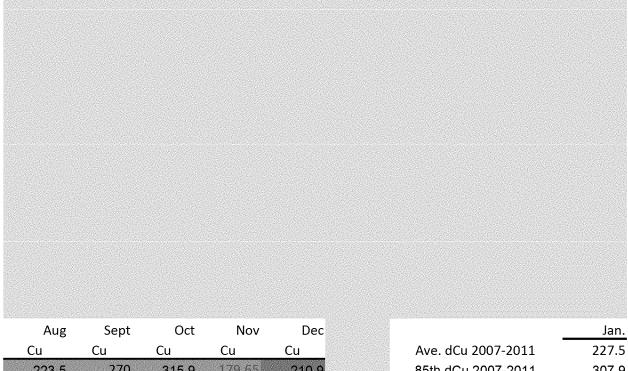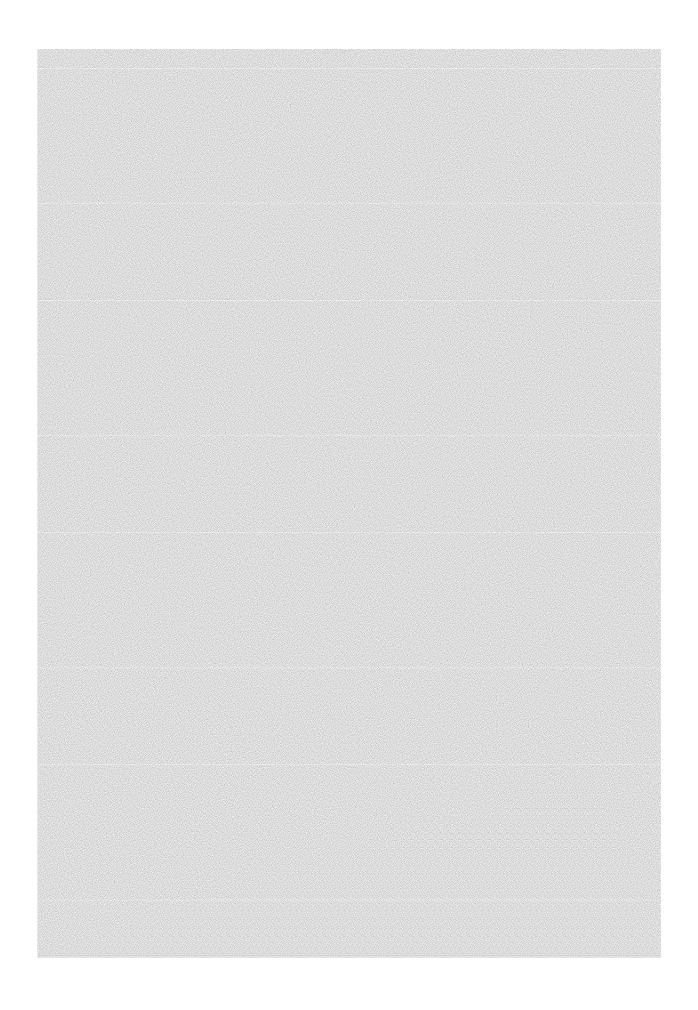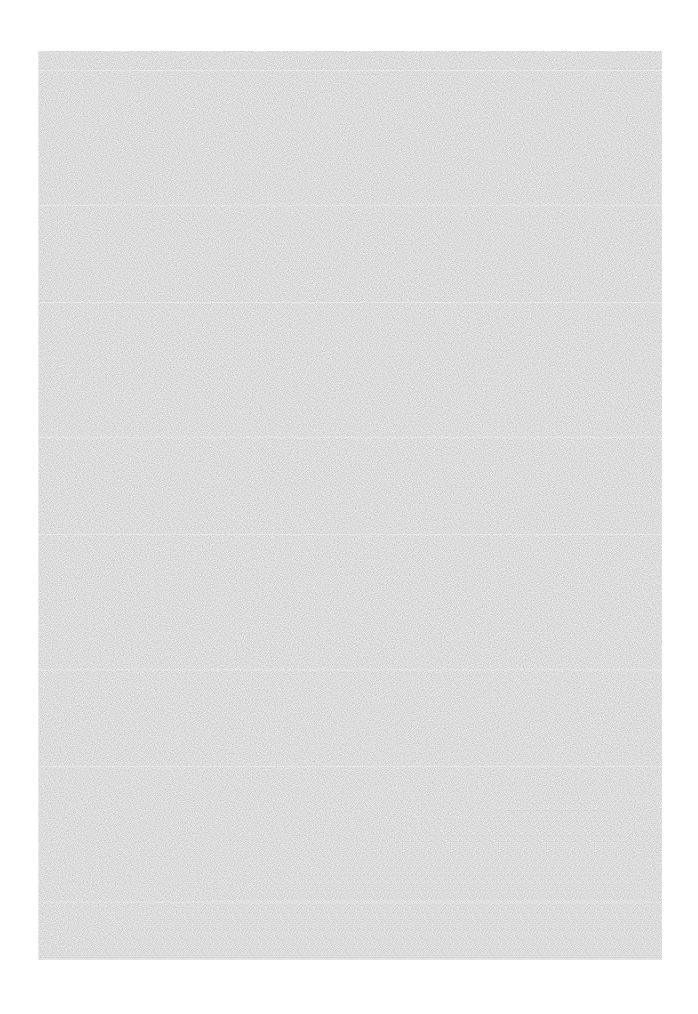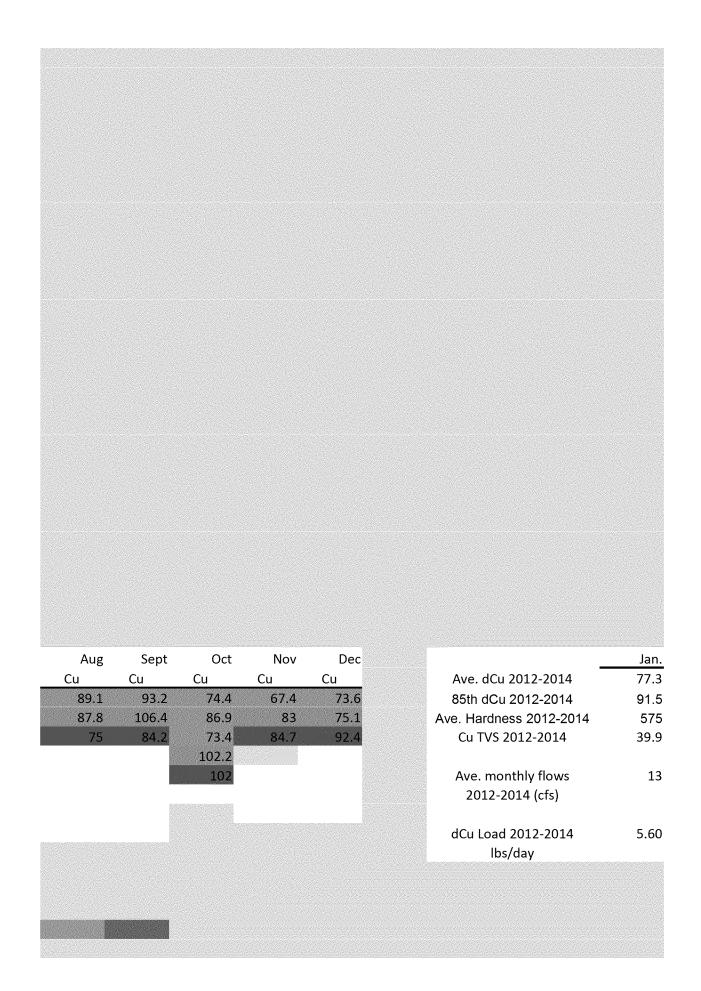
Aug	Sept	Oct	Nov	Dec
Cu	Cu	Cu	Cu	Cu
223.5	270	315.9	179.65	210.9
246.4	302	277.7	230.7	131.1
255.3	224.55	213.2	165.00	120
221	189	178.1	152	
184.1	179.65	147.5	140	
112.1	163	139	155.05	
145	158.05		101.7	
	148			
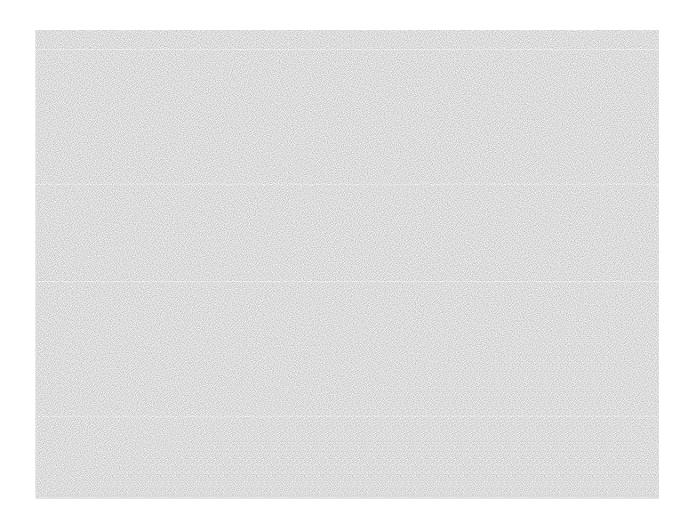
	Jan.
Ave. dCu 2007-2011	227.5
85th dCu 2007-2011	307.9
Ave. Hardness 2007-2011	550
Cu TVS 2007-2011	38.4
Ave. monthly flows 2007-2011 (cfs)	13
dCu Load 2007-2011 lbs/day	16.09

2010	2011

	Aug Cu	Sept Cu	Oct Cu	Nov Cu	Dec Cu
	89.1	93.2	74.4	67.4	73.6
	87.8	106.4	86.9	83	75.1
	75	84.2	73.4	84.7	92.4
			102.2		
			102		

	Jan.
Ave. dCu 2012-2014	77.3
85th dCu 2012-2014	91.5
Ave. Hardness 2012-2014	575
Cu TVS 2012-2014	39.9
Ave. monthly flows 2012-2014 (cfs)	13
dCu Load 2012-2014 lbs/day	5.60
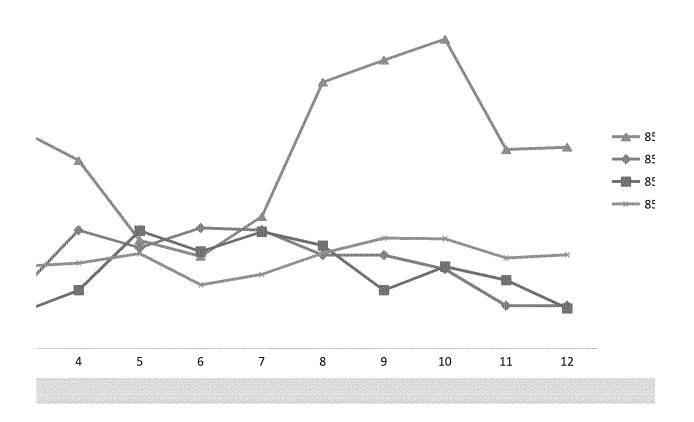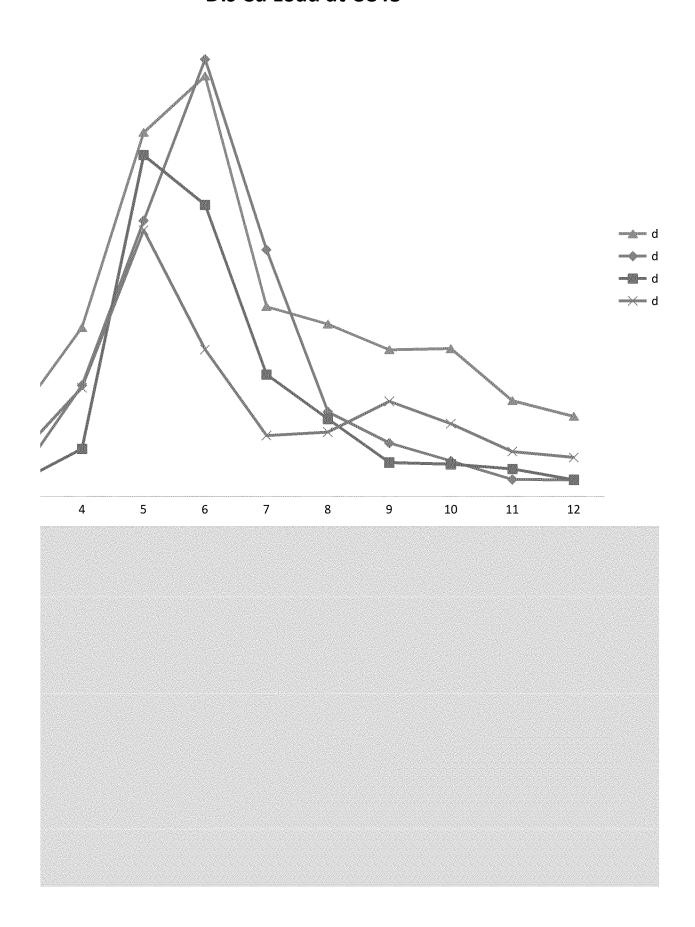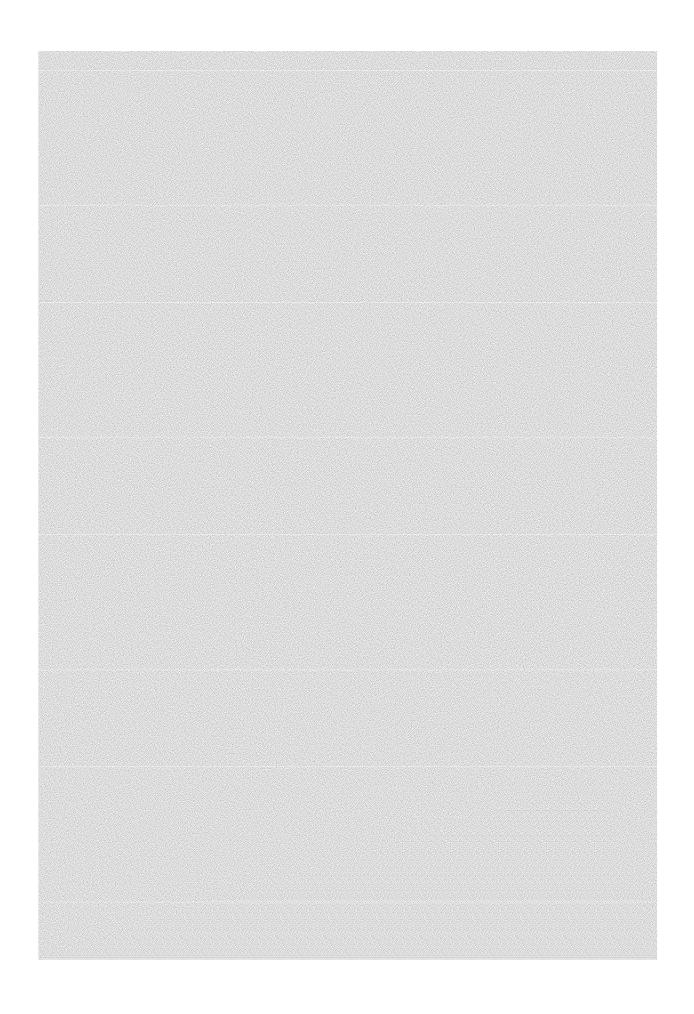
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
	40.4	36.4	100.2	69.7	74.9	77.1	72.0	65.3	55.4
	46.7	51.0	109.9	93.6	112.0	110.0	86.7	87.0	73.9
	622	622	381	178	173	182	308	384	577
	42.7	42.7	28.1	14.6	14.3	14.9	23.4	28.3	40.0
	13.5	16.5	30.1	107.3	158.3	86.8	31.9	22.2	17.4
	2.94	3.24	16.26	40.30	63.89	36.05	12.37	7.81	5.20

Dis Cu Conc. At CC48

Dis Cu Load at CC48

Legend: d, d, d, d

x-axis: 4 5 6 7 8 9 10 11 12
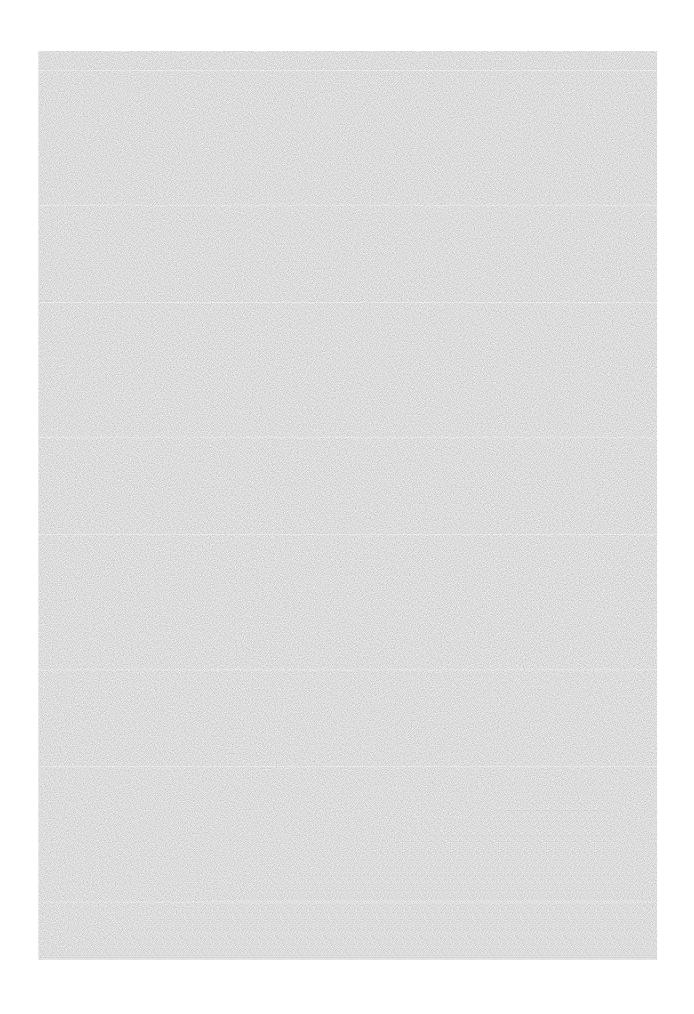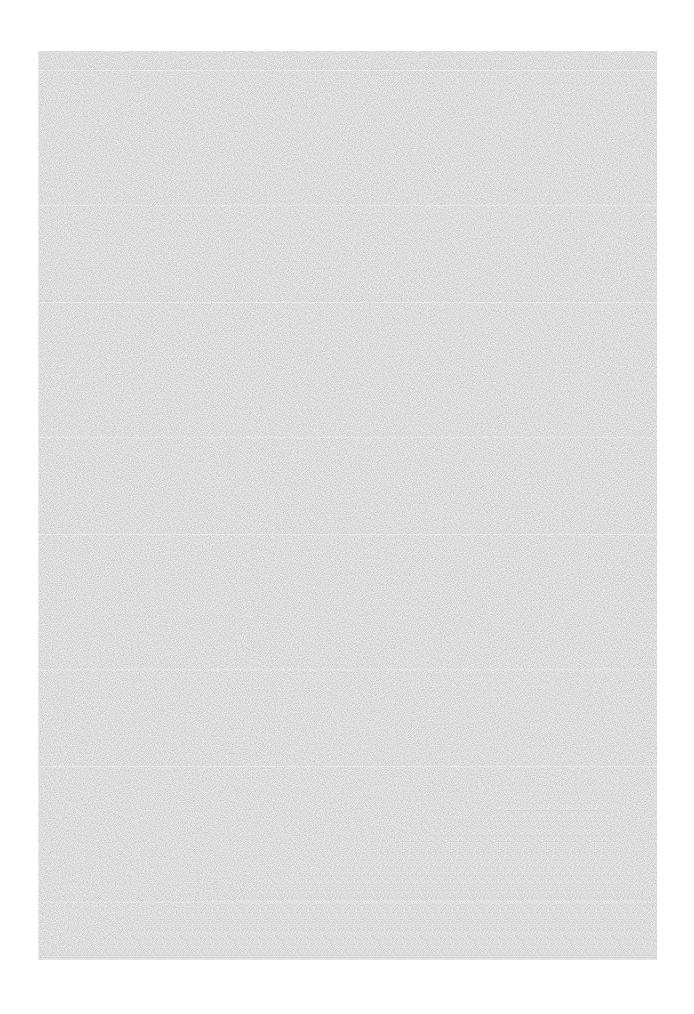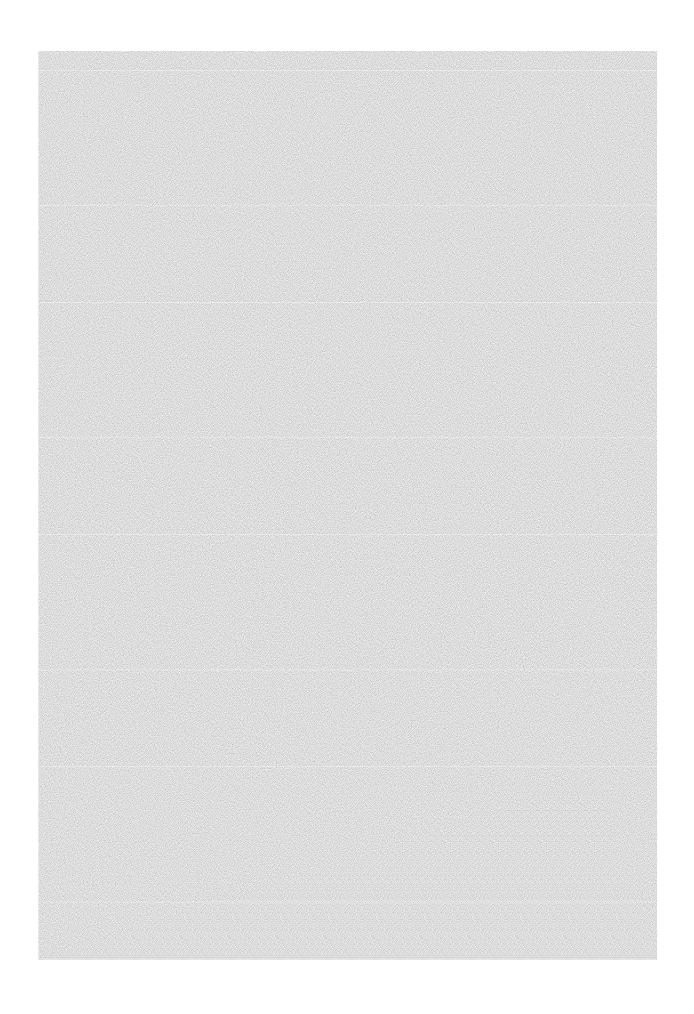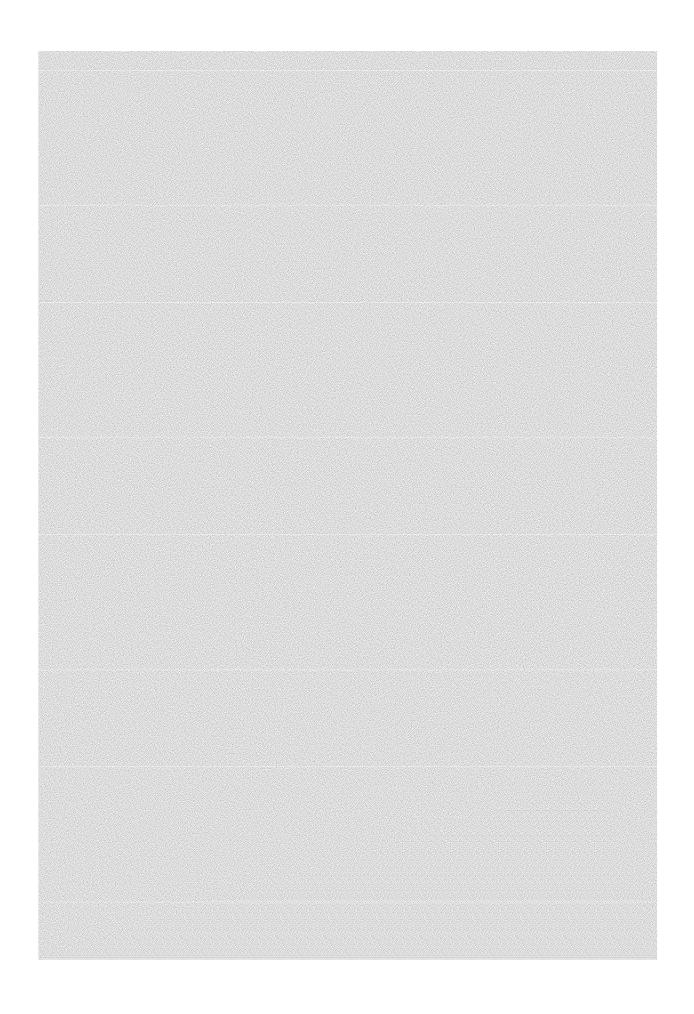
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
25.9	28.7	45.2	85.8	70.3	67.6	74.0	42.2	50.6
34.1	32.5	54.2	109.4	90.1	108.5	95.6	54.3	76.1
575	503	431	150	135	212	387	414	520
39.9	35.6	31.2	12.6	11.5	17.0	28.5	30.2	36.6
12	14	29	108	113	49	28	22	17
1.71	2.24	6.99	49.90	42.61	17.82	11.34	4.97	4.72
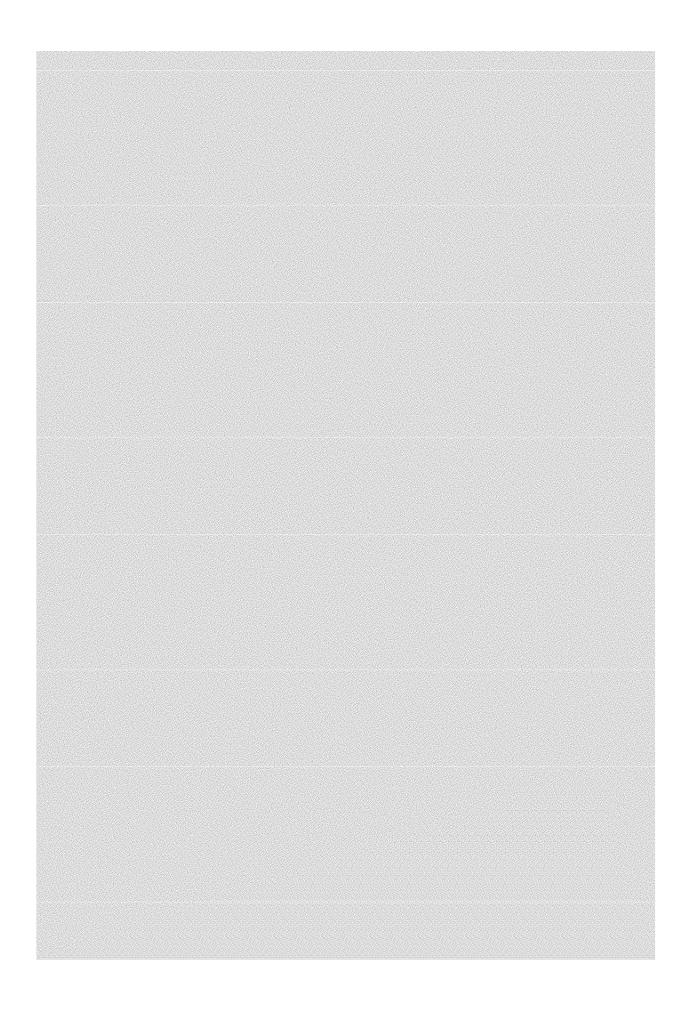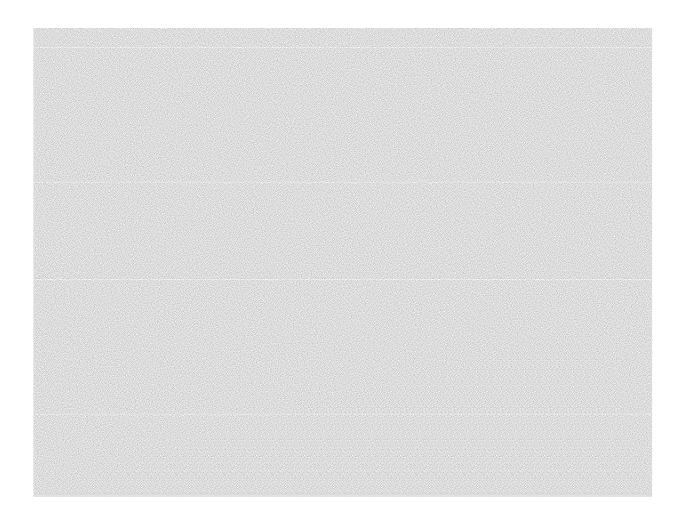
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
161.0	146.5	137.2	83.5	72.3	105.8	198.2	204.3	211.9
211.6	204.3	174.7	100.5	85.7	122.8	247.3	267.7	287.3
538	539	439	153	111	234	375	458	456
37.7	37.8	31.7	12.9	9.8	18.5	27.7	32.9	32.7
13	16	33	118	158	49	24	19	19
11.07	12.34	24.70	53.21	61.44	27.78	25.20	21.45	21.61
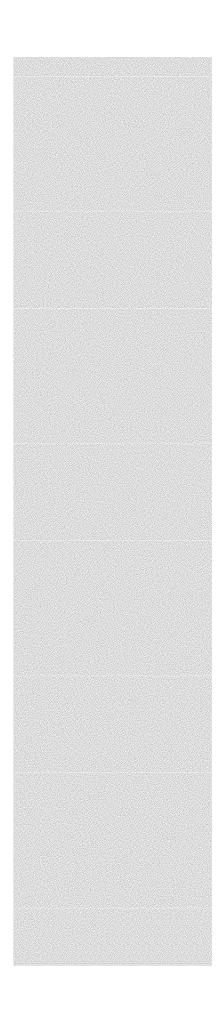
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
72.4	67.9	75.6	76.4	49.8	58.5	84.0	94.6	87.8
82.4	76.1	79.4	88.3	59.3	68.9	88.7	102.4	102.1
559	564	361	168	139	292	375	462	434
39.0	39.3	26.8	13.9	11.8	22.4	27.7	33.1	31.4
14	17	39	95	80	28	21	27	23
5.32	6.24	15.92	38.91	21.47	8.92	9.42	13.91	10.65
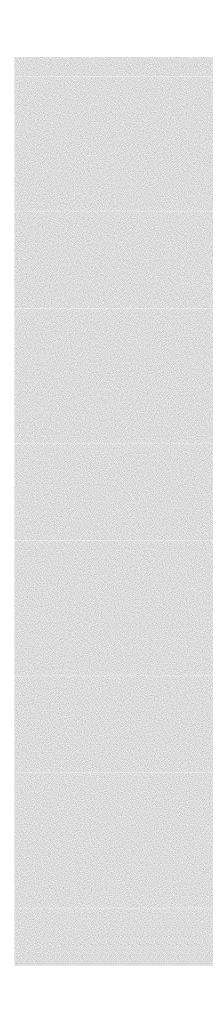
Nov	Dec
29.8	35.6
40.0	40.0
130	596
11.2	41.2
15.5	12.8
2.49	2.46

5th dCu 2007-2011

5th dCu 1991-mid 1996

5th dCu 1998-2001
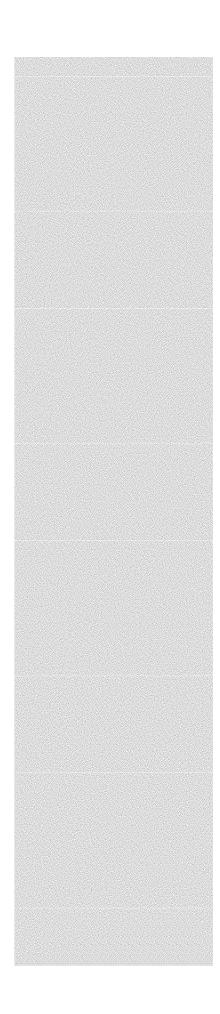
5th dCu 2012-2014

Cu Load 2007-2011

Cu Load 1991-mid 1996

Cu Load 1998-2001

Cu Load 2012-2014

Nov	Dec
45.2	34.4
63.6	37.5
457	557
32.8	38.9
16	13
4.02	2.45
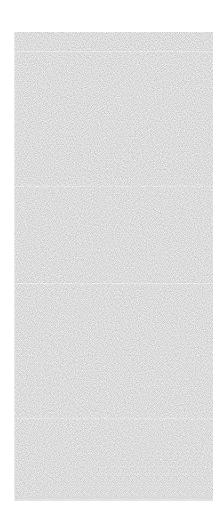
Nov	Dec
164.9	154.0
184.8	187.0
490	516
34.8	36.4
16	14
14.03	11.72

Nov	Dec
78.4	80.4
84.2	87.2
479	531
34.1	37.3
16	13
6.57	5.72

DATE	FE_TOT
2/11/1991	-9
3/28/1991	-9
4/23/1991	-9
09/05/91	4800
9/6/1991	8100
9/7/1991	7200
9/9/1991	7800
9/10/1991	7500
6/23/1992	5000
6/24/1992	4900
6/25/1992	5000
07/23/92	38830
9/20/1992	9304
10/14/1992	8600
10/15/1992	7500
7/20/1993	4200
7/21/1993	4500
11/2/1993	-9
3/16/1994	8560
6/30/1994	3220
9/29/1994	
10/12/1994	4679
11/9/94	8200
11/9/1994	-9
12/13/1994	10460
1/18/1995	15950
2/15/1995	4283
3/1/1995	7381
3/15/1995	7013
4/6/1995	7650
4/12/1995	10100
4/12/1995	7287
4/19/1995	6300
5/3/1995	5823
5/10/1995	5953
5/22/1995	3077
5/31/1995	6315
6/7/1995	3096
6/14/1995	-9
6/21/1995	4525
6/21/1995	4620
6/28/1995	3108
7/5/1995	3720

Jan.	Feb	Mar	Apr	May	June	July
TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
15950	4283	8560	7650	5823	5000	38830
2180	4900	7381	8694	5953	4900	4200
		7013	6300	3077	5000	4500
		5867	5030	6315	3220	3720
		4855	10000	5933	3096	5213
			8820	8450	4573	4012
			5042	7437	3108	
				4600	2948	
				4058	3477	
					3335	
					3606	

COLOR CODE:	1991	1992	1993	1994

Average of same day results

1799563

Date	Value
7/12/1995	5213
7/19/1995	4012
8/2/1995	4131
8/16/1995	3824
9/6/1995	4990
9/13/1995	2028
10/11/1995	4311
11/15/1995	5760
11/29/1995	8000
12/13/1995	6164
1/16/1996	6500
1/17/1996	2180
2/14/1996	4900
3/13/1996	5867
3/20/1996	4855
4/3/1996	5030
4/9/1996	10000
4/10/1996	8820
4/17/1996	5042
5/1/1996	5933
5/8/1996	8450
5/15/1996	7437
5/21/1996	4600
5/29/1996	4058
6/5/1996	2948
6/12/1996	3477
06/18/96	-9
6/19/1996	3335
6/26/1996	3606
7/3/1996	3752
7/10/1996	3588
7/12/1996	3981
7/16/1996	4000
8/7/1996	6060
8/14/1996	6900
08/14/96	-9
8/21/1996	5515
9/18/1996	7743
10/1/1996	7993
10/16/1996	6470
10/18/96	-9
11/07/96	-9
11/13/1996	5779
11/19/96	8520
12/13/96	-9
12/18/1996	14790
1/7/1997	12000

Date	Value
01/09/97	12726
1/15/1997	13080
01/30/97	12052
02/05/97	-9
2/12/1997	6106
02/25/97	10107
3/5/1997	12000
3/12/1997	5712
3/19/1997	10910
03/25/97	7303
4/2/1997	5781
04/11/97	-9
4/16/1997	5199
04/28/97	289
4/30/1997	4312
5/7/1997	9500
05/14/97	14856
5/21/1997	3927
05/21/97	4278
5/28/1997	4344
05/29/97	4610
6/4/1997	6443
06/05/97	10861
06/10/97	-9
6/11/1997	2379
6/11/1997	2379
06/11/97	3235
06/17/97	2832
6/18/1997	2495
6/18/1997	2495
6/25/1997	2166
6/25/1997	2166
06/25/97	2811
7/2/1997	2556
7/2/1997	2556
07/02/97	3022
7/9/1997	4200
07/15/97	3676
7/16/1997	2710
7/16/1997	2710
07/29/97	2235
8/13/1997	2566
08/13/97	-9
08/13/97	2585
08/26/97	5152
08/26/97	630910
08/26/97	887054

Date	Value
08/29/97	-9
9/11/1997	6400
9/11/97	4405
9/17/1997	6068
09/25/97	3763
10/08/97	-9
10/15/1997	3674
10/22/97	5497
11/12/1997	7300
11/12/1997	5991
11/26/97	7256
12/03/97	-9
12/17/1997	7943
12/23/97	9150
1/7/1998	13000
1/14/1998	5323
02/04/98	-9
2/11/1998	5229
02/12/98	8974
3/4/1998	3925
3/5/1998	9400
03/16/98	10226
3/18/1998	6661
4/1/1998	6155
04/08/98	
4/15/1998	3515
04/23/98	8417
4/29/1998	6308
5/5/1998	5492
05/06/98	11473
5/7/1998	6900
5/13/1998	5780
5/27/1998	5780
6/3/1998	5427
6/10/1998	3561
06/10/98	
6/17/1998	3156
6/24/1998	3061
7/1/1998	3600
7/8/1998	3650
7/15/1998	3867
7/22/1998	3750
08/05/98	
8/26/1998	4449
9/2/1998	4583
9/9/1998	5400
9/16/1998	4163

Jan.	Feb	Mar	Apr	May	June	July
TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
13000	5229	3925	6155	5492	5427	3600
5323	8974	9400	3515	11473	3561	3650
9400	6405	10226	8417	6900	3156	3867
5822	14310	6661	6308	5780	3061	3750
10000		9400	7625	5780	5975	5200
9060		5372	5079	11000		4000
12000		15000		8500		
		12737		18000		
		13000				

COLOR CODE: 1998 1999 2000 2001

1999 data when CC not treated is not include
Average of same day results

Date	Value	Note
09/30/98	8134	
10/07/98		
10/14/1998	4207	
11/3/1998	8500	
11/03/98	-9	
11/18/1998	5657	
1/6/1999	9400	
1/6/1999	9400	
1/13/1999	5822	
02/04/99		
02/09/99	-9	
2/24/1999	6405	
3/3/1999	9400	
3/17/1999	5372	
4/1/1999	7625	
04/07/99		
4/21/1999	5079	
04/29/99	-9	
5/6/1999	11000	
05/26/99	-9	
06/09/99		
06/09/99	-9	
6/23/1999	5975	
07/07/99		
07/15/99	-9	
07/29/99		
8/4/1999	14000	Cement Creek not treated
8/4/99	14000	Cement Creek not treated
08/17/99		Cement Creek not treated
9/1/1999	7000	Cement Creek not treated
9/13/1999	7474	Cement Creek not treated
10/06/99		Cement Creek not treated
10/14/1999	7760	Cement Creek not treated
11/3/99	7900	Cement Creek not treated
11/17/1999	9070	Cement Creek not treated
12/1/99		
12/15/1999	15620	
1/5/00	10000	
1/12/2000	9060	
2/2/00		
2/28/2000	14310	
3/1/00	15000	
3/15/2000	12737	
4/5/00		
5/3/00	8500	
6/7/00		
7/5/00	5200	

Date	Value
8/2/00	
9/6/00	30000
10/4/00	
11/1/00	9100
12/6/00	
1/3/01	12000
2/6/01	
3/14/01	13000
4/4/01	
5/2/01	18000
6/6/01	
7/6/01	4000
8/1/01	
9/5/01	8300
10/3/01	
11/7/01	8700
12/5/01	
1/2/02	15000
2/6/02	
3/6/02	16000
4/3/02	
5/1/02	
6/5/02	7020
6/27/2002	8653
7/3/02	8230
7/17/2002	8927
8/7/02	
8/14/2002	10310
9/4/02	11100
9/18/2002	11594
10/2/02	
10/25/2002	18753
11/6/02	1500
11/12/2002	24300
12/4/02	
12/8/2002	14600
1/8/2003	9601
1/9/03	12600
2/1/2003	12642
2/5/03	
3/3/03	13860
3/9/2003	11049
4/24/2003	12231
5/7/2003	10510
5/7/2003	9269
6/2/2003	5752
7/2/2003	3497

Date	Value
7/2/2003	3617
8/14/2003	6326
9/11/2003	9780
9/11/2003	5923
10/4/2003	6341
11/6/03	15300
12/29/2003	11704
1/16/2004	12734
2/13/2004	24601
3/3/04	1540
3/3/2004	13860
4/16/2004	7786
5/5/04	12800
5/5/2004	7580
5/28/2004	4374
6/17/2004	3513
7/7/04	4700
7/7/2004	5082
8/19/2004	8084
9/1/04	8670
9/15/2004	8236
10/14/04	4917
11/10/04	9560
11/10/2004	7931
12/8/2004	12629
1/20/2005	0
2/15/05	0
3/2/2005	14300
3/13/2005	7944
4/9/05	9892
5/4/2005	8260
5/4/05	6674
6/9/2005	2989
7/6/2005	3760
07/06/2005	3760
7/6/2005	3911
8/10/2005	2964
9/14/05	9605
9/15/2005	**10100**
09/15/2005	10100
10/13/05	10188
11/2/05	12405
11/2/2005	
12/20/05	17890
1/6/06	12240
01/06/2006	12800
2/8/06	15880
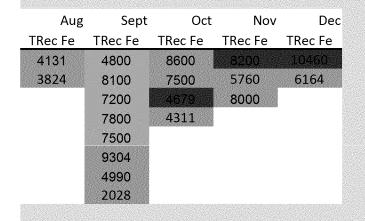
Date	Value
~~2/8/06~~	~~15280~~
~~3/7/06~~	~~12130~~
03/15/2006	16100
3/15/2006	15280
4/5/06	
4/5/2006	12130
05/10/2006	7490
5/10/2006	5508
6/6/06	4686
~~7/12/06~~	~~6329~~
07/12/2006	6940
7/12/2006	6329
8/2/2006	9330
09/06/2006	13100
9/6/2006	**8165**
10/11/2006	6809
11/01/2006	9940
11/1/2006	8833
12/5/2006	14960
1/11/2007	18540
2/6/2007	16930
03/07/2007	18100
3/7/2007	14630
4/2/2007	11680
05/11/2007	7280
5/11/2007	5583
6/5/2007	4780
07/11/2007	6040
7/11/2007	5433
8/6/2007	14270
09/05/2007	12600
10/25/2007	9590
11/07/2007	12000
11/7/2007	11850
1/2/2008	13300
1/2/2008	13791
3/12/2008	16600
3/12/2008	17120
4/10/2008	12276
5/7/2008	9500
5/7/2008	7952
6/3/2008	13063
7/9/2008	4820
7/9/2008	4607
8/5/2008	6663
~~9/3/2008~~	~~21300~~
9/3/2008	10041

Jan.	Feb	Mar	Apr	May	June	July
TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
18540	16930	16365	11680	6432	4780	5737
13546	14868	16860	12276	8726	13063	4714
15900	21700	17000	18000	10590	5310	5062
14860	19564	12900	18919	3950	4440	6030
		20555	11700	8137	4418	5073
		19400	12038	13100	7679	5460
		16776		15403	3610	3818
		14800				5230

COLOR CODE: 2006   2007   2008   2009

Average of same day results

10/6/2008	10886
11/7/2008	17600
11/7/2008	15197
12/3/2008	14303
1/8/2009	15900
1/8/2009	6157
2/6/2009	14868
3/3/2009	17000
3/4/2009	13300
3/4/2009	12500
4/6/2009	18000
5/13/2009	10900
5/13/2009	10280
5/19/2009	3950
6/2/2009	5310
6/16/2009	4440
6/16/2009	
6/16/2009	
6/16/2009	
7/8/2009	5200
7/8/2009	4923
7/14/2009	
7/14/2009	6030
7/14/2009	
7/14/2009	
8/12/2009	9661
8/18/2009	10800
8/18/2009	
8/18/2009	
8/18/2009	10700
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	11800
9/16/2009	12081
9/22/2009	13400
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	12802
11/4/2009	13000
11/4/2009	13000
11/5/2009	35
11/17/2009	
11/17/2009	18600
11/17/2009	

Date	Value
12/1/2009	182
2/17/2010	
2/17/2010	21700
2/17/2010	
2/17/2010	19100
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	20555
3/17/2010	19400 J
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	18919
4/13/2010	
4/13/2010	11700
4/13/2010	
4/13/2010	12700
5/5/2010	8613
5/5/2010	7660
6/2/2010	4945
6/2/2010	4150
6/2/2010	4160
6/2/2010	
6/2/2010	
7/8/2010	4725
7/8/2010	5420
7/13/2010	
7/13/2010	5460
7/13/2010	
8/10/2010	7258
9/9/2010	7956
9/9/2010	8710
9/14/2010	
9/14/2010	10800
9/14/2010	
9/14/2010	11500
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	11886
11/2/2010	
11/2/2010	14200
11/2/2010	
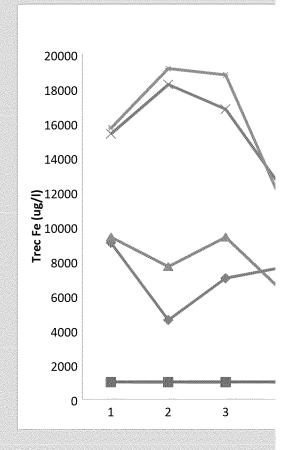
Date	Value
11/2/2010	
11/2/2010	
11/2/2010	**13300**
11/2/2010	
11/2/2010	
11/3/2010	11285
11/3/2010	12100
12/7/2010	16613
1/5/2011	12224
1/5/2011	17500
2/11/2011	19564
3/9/2011	15452
3/9/2011	18100
3/15/2011	14800
4/6/2011	12038
5/4/2011	13100
5/8/2011	15403
6/3/2011	7679
6/14/2011	3610
7/5/2011	3818
7/19/2011	5230
8/1/2011	4082
8/16/2011	7290
9/7/2011	3381
9/7/2011	8160
9/13/2011	8630
10/7/2011	12562
10/18/2011	11700
11/2/2011	14100
11/2/2011	11453
12/7/2011	21334
1/5/2012	15342
2/9/2012	18116
3/7/2012	18794
4/3/2012	8737
5/2/2012	6807
5/15/2012	6510
6/2/2012	6531
8/6/2012	9183
9/4/2012	11578
10/2/2012	15100
10/3/2012	13840
10/4/2012	15400
11/7/2012	15166
12/10/2012	22000
1/7/2013	16522
2/7/2013	19159

Jan.	Feb	Mar	Apr	May	June	July
TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
15342	18116	18794	8737	6807	6531	6889
16522	19159	21483	18033	6510	5856	5561
15718	19971	18300	11284	10636	3775	
				17200		
				16600		

COLOR CODE: 2012   2013   2014

Average of same day results
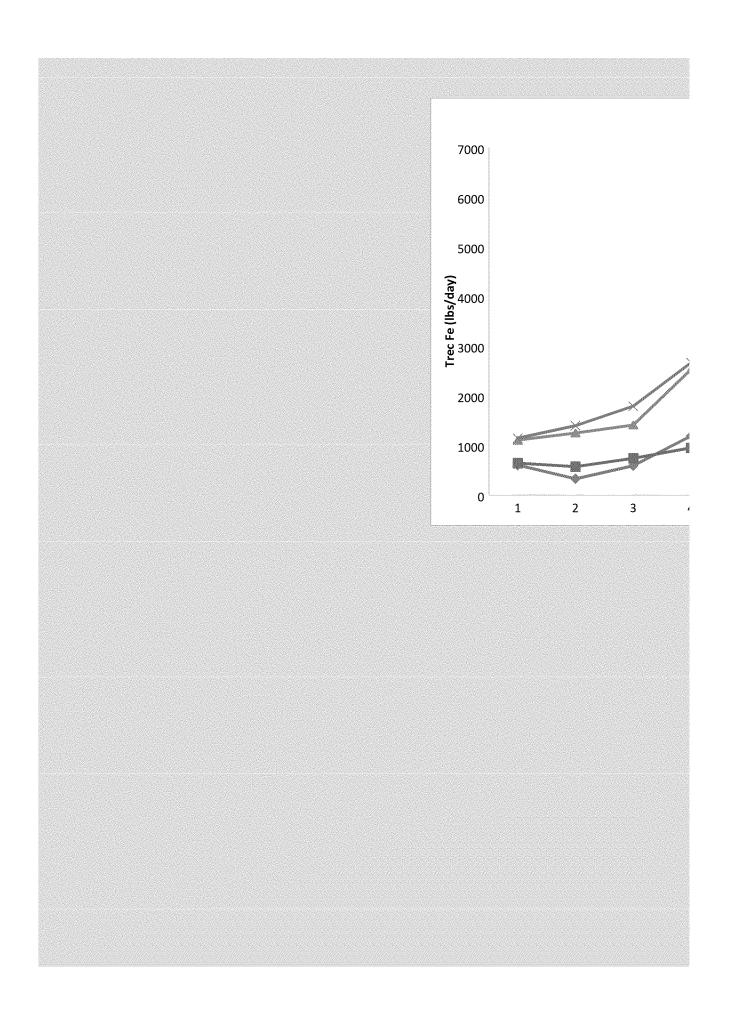
Date	Value
3/11/2013	21483
4/10/2013	18033
5/7/2013	10636
5/14/2013	17200
6/5/2013	5856
7/7/2013	6889
8/4/2013	10173
9/10/2013	18440
10/2/2013	10988
11/8/2013	14416
12/13/2013	12289
1/8/2014	15718
2/7/2014	19971
3/5/2014	18300
4/10/2014	11284
5/6/2014	16600
6/6/2014	3775
7/1/2014	5561
8/1/2014	5958
9/5/2014	8450
9/23/2014	1420
10/2/2014	8779
11/7/2014	9640
12/5/2014	13228
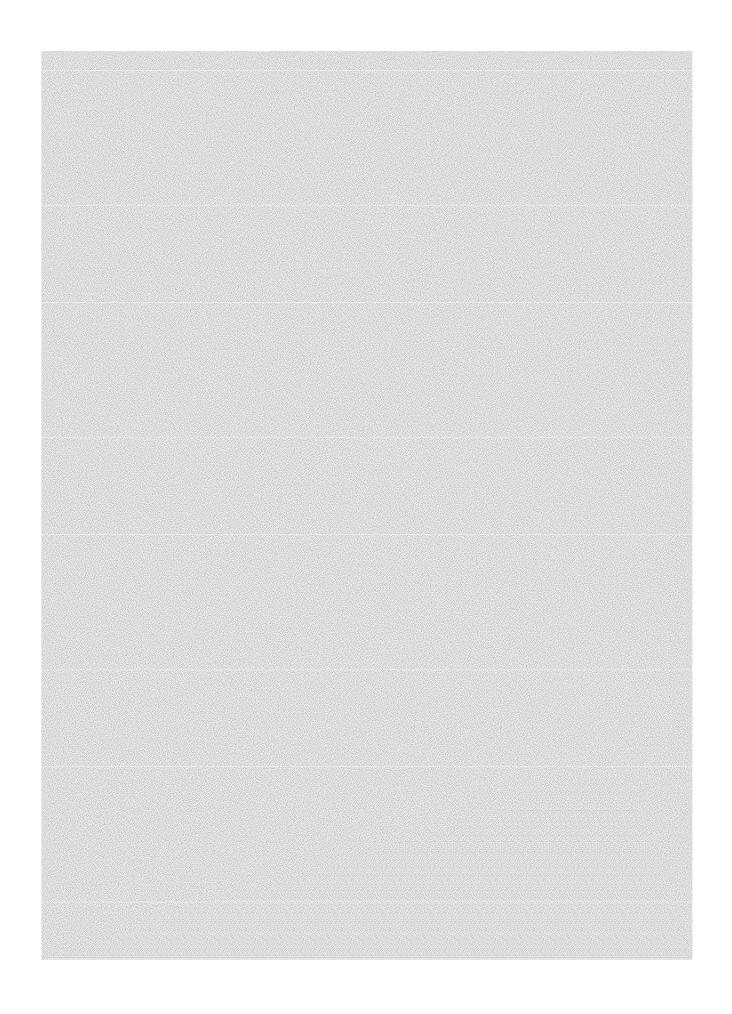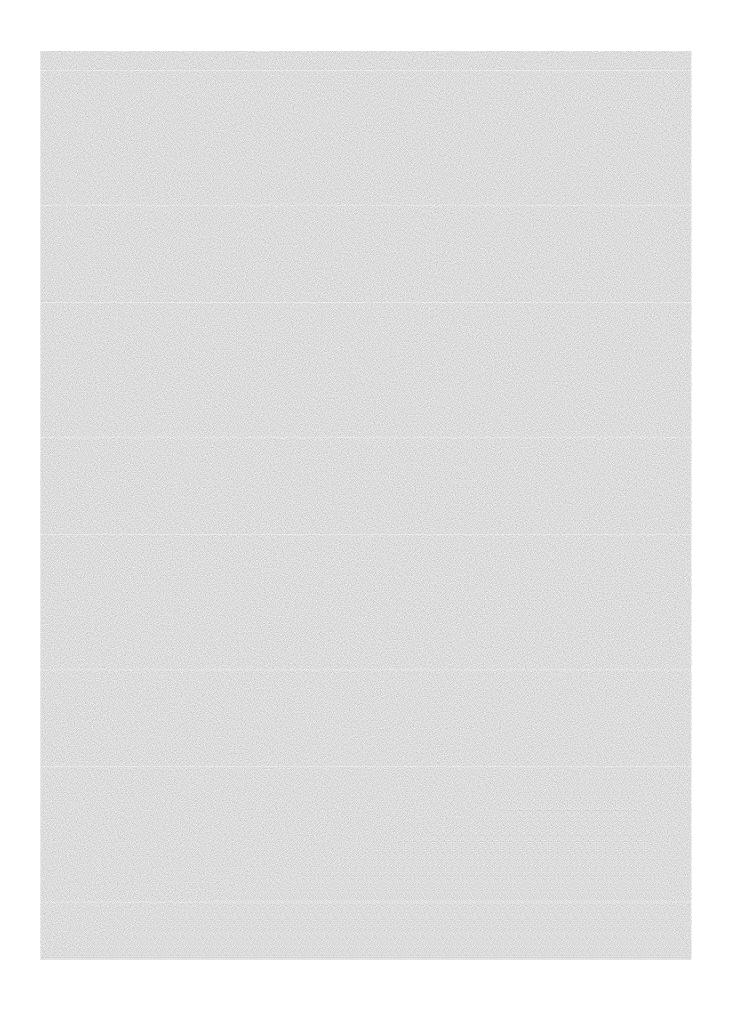
	Aug TRec Fe	Sept TRec Fe	Oct TRec Fe	Nov TRec Fe	Dec TRec Fe
	4131	4800	8600	8200	10460
	3824	8100	7500	5760	6164
		7200	4679	8000	
		7800	4311		
		7500			
		9304			
		4990			
		2028			

	Jan.
Ave Trec Fe 1991-mid 1996	9065
50th Trec Fe 1991-mid 1996	9065
Table Value Std.	1000
Ave. monthly flows 1991-mid 1996 (cfs)	12
Trec Fe Load 1991-mid 1996 lbs/day	608

1995	1996

	Aug	Sept	Oct	Nov	Dec
	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
	4449	4583	4207	8500	15620
		5400		5657	
		4163		9100	
		8134		8700	
		30000			
		8300			
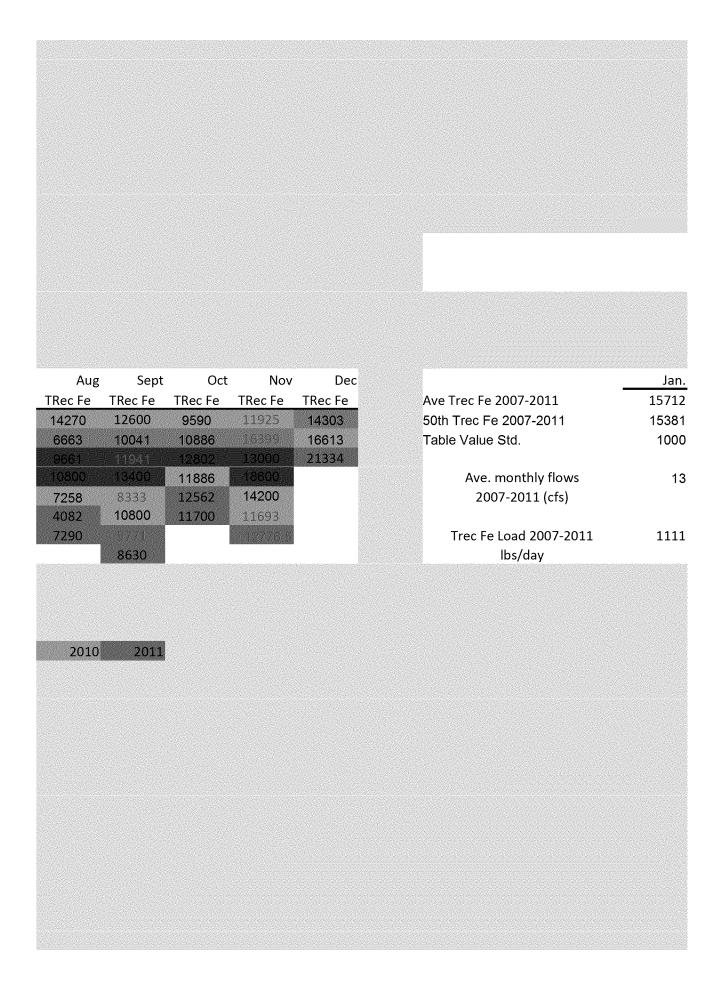
	Jan.
Ave Trec Fe 1998-2001	9229
50th Trec Fe 1998-2001	9400
Table Value Std.	1000
Ave. monthly flows 1998-2001 (cfs)	13.0
Trec Fe Load 1998-2001 lbs/day	647

d (Aug-Nov)

	Aug	Sept	Oct	Nov	Dec
	TRec Fe	TRec Fe	TRec Fe	TRec Fe	TRec Fe
	14270	12600	9590	11925	14303
	6663	10041	10886	16399	16613
	9661	11941	12802	13000	21334
	10800	13400	11886	18600	
	7258	8333	12562	14200	
	4082	10800	11700	11693	
	7290	5771		12776.5	
		8630			

	Jan.
Ave Trec Fe 2007-2011	15712
50th Trec Fe 2007-2011	15381
Table Value Std.	1000
Ave. monthly flows 2007-2011 (cfs)	13
Trec Fe Load 2007-2011 lbs/day	1111

2010	2011

Aug TRec Fe	Sept TRec Fe	Oct TRec Fe	Nov TRec Fe	Dec TRec Fe
9183	11578	15100	15166	22000
10173	18440	13840	14416	12289
5958	8450	15400	9640	13228
	1420	10988		
		8779		

	Jan.
Ave Trec Fe 2012-2014	15861
50th Trec Fe 2012-2014	15718
Table Value Std.	1000
Ave. monthly flows 2012-2014 (cfs)	13
Trec Fe Load 2012-2014 lbs/day	1149

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
4592	6735	7362	5738	3842	10079	3978	6465	6273	7320
4592	7013	7650	5933	3477	4350	3978	7350	6090	8000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
14	17	30	107	158	87	32	22	17	16
334	599	1195	3319	3280	4715	683	774	588	612
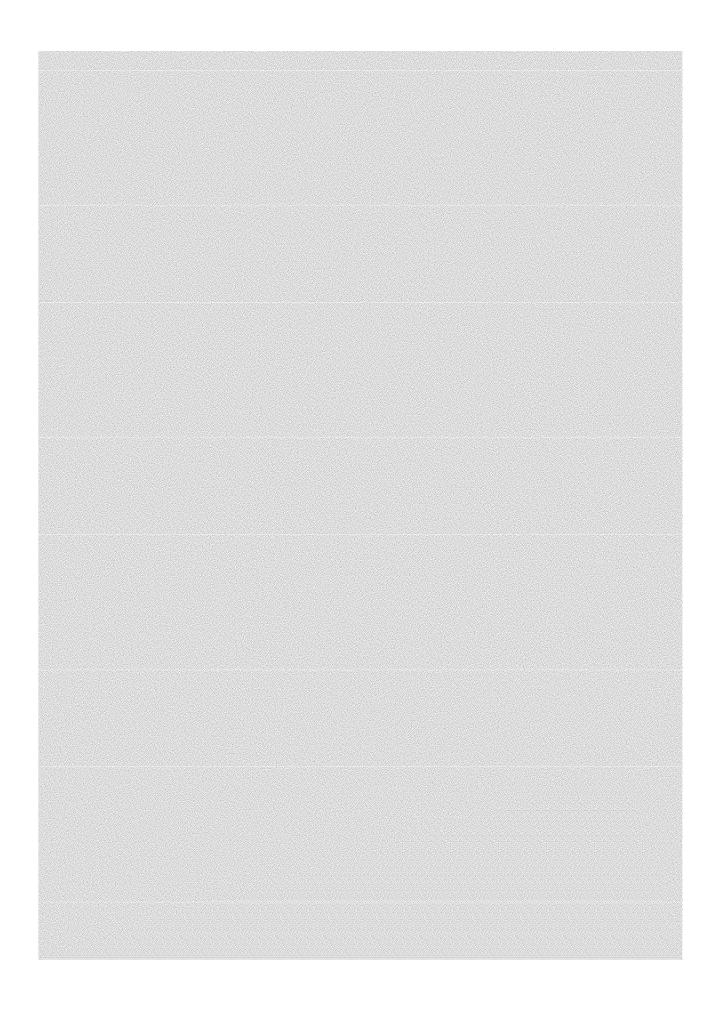
Trec Fe Conc. At CC48
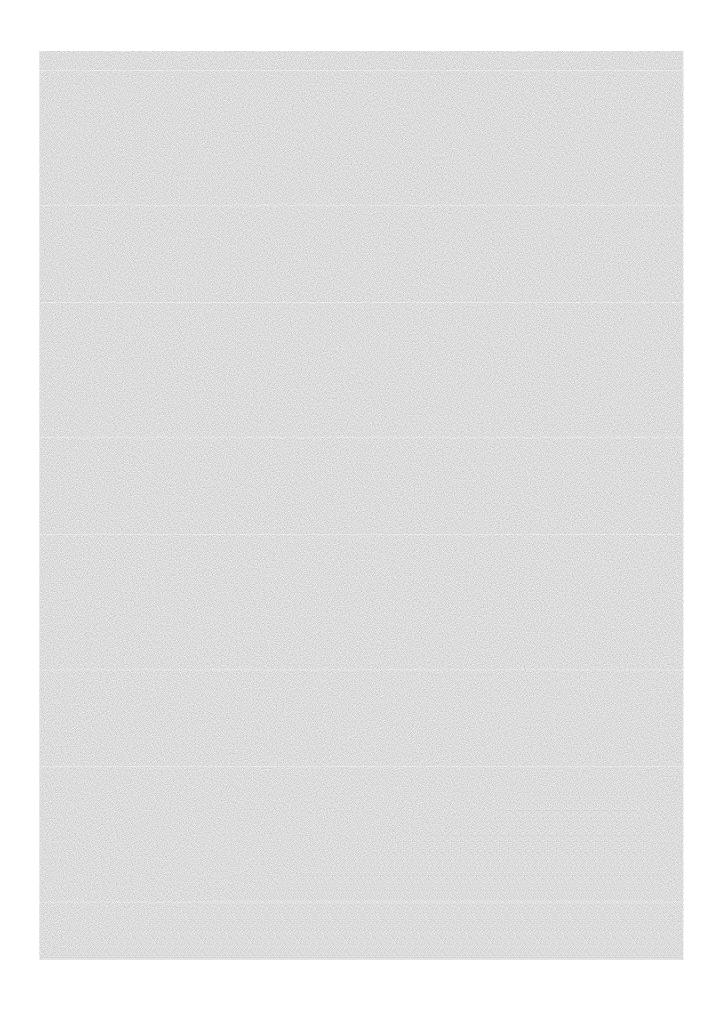
Legend:
- 50th Trec Fe 2007-
- 50th Trec Fe 1991-
- 50th Trec Fe 1998-
- Table Value Std.100
- 50th Trec Fe 2012-

X-axis: 4 5 6 7 8 9 10 11 12

Trec Fe Load at CC48

Legend:
- Trec Fe Load 2007-
- Trec Fe Load 1991-
- Trec Fe Load 1998-
- Trec Fe Load 2012-

X-axis: 4, 5, 6, 7, 8, 9, 10, 11, 12
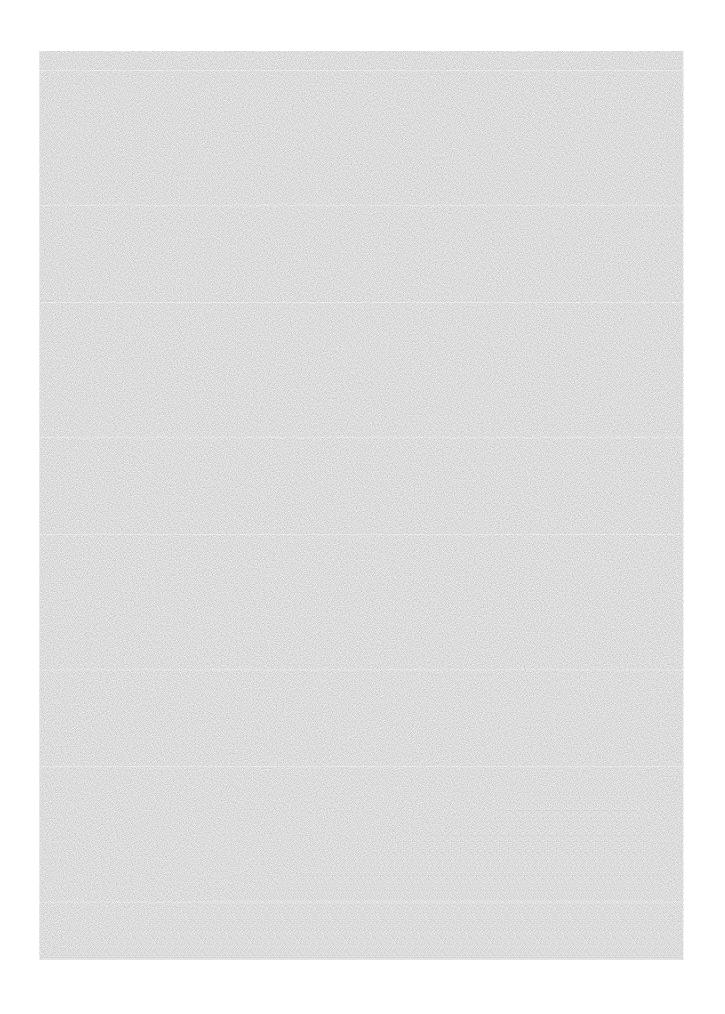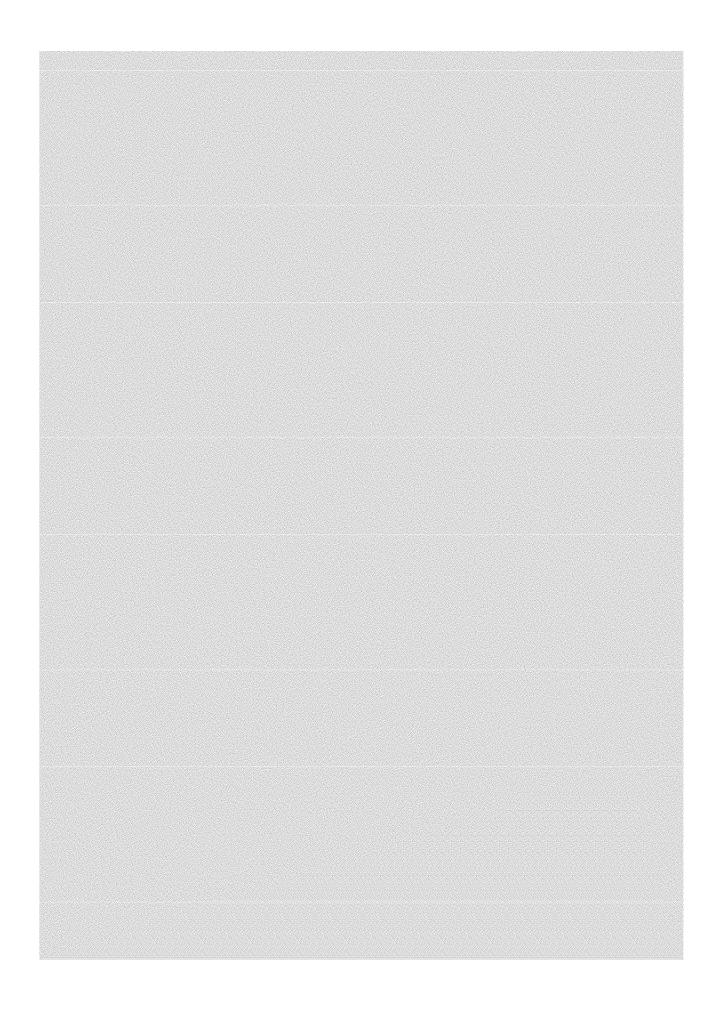
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
8730	9525	6183	9116	4236	4011	4449	10097	4207	7989
7690	9400	6232	7700	3561	3809	4449	6767	4207	8600
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
12.3	14.5	28.7	107.8	112.5	48.9	28.4	21.9	17.3	16.5
577	743	955	5299	2569	1058	682	1191	393	710

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
18266	16832	14102	9477	6186	5140	8575	10189	11571	14085
18247	16818	12157	8726	4780	5151	7290	10421	11793	13000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
13	16	33	118	158	49	24	19	19	16
1257	1417	2538	6038	5259	1350	1090	1070	1180	1198

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
19082	19526	12685	11551	5387	6225	8438	9972	12821	13074
19159	18794	11284	10636	5856	6225	9183	10014	13840	14416
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
14	17	39	95	80	28	21	27	23	16
1403	1793	2669	5885	2325	949	946	1466	1555	1096

	Dec
	8312
	8312
	1000
	13
	574

2011

mid 1996

2001

00

2014

2011

mid 1996

2001

2014

Dec
15620
15620
1000
13.2
1113

Dec
17417
16613
1000
14
1326

Dec
15839
13228
1000
13
1127

DATE

AL_TOT

DATE	AL_TOT
2/11/1991	-9.0
3/28/1991	-9.0
4/23/1991	-9.0
09/05/91	4600.0
9/6/1991	4700.0
9/7/1991	5000.0
9/9/1991	4200.0
9/10/1991	3800.0
6/23/1992	-9.0
6/24/1992	-9.0
6/25/1992	-9.0
07/23/92	
9/20/1992	
10/14/1992	-9.0
10/15/1992	-9.0
7/20/1993	-9.0
7/21/1993	-9.0
11/2/1993	-9.0
3/16/1994	-9.0
6/30/1994	-9.0
9/29/1994	
10/12/1994	
11/9/94	4100.0
11/9/1994	
12/13/1994	
1/18/1995	
2/15/1995	
3/1/1995	
3/15/1995	
4/6/1995	
4/12/1995	5277.0
4/12/1995	
4/19/1995	
5/3/1995	
5/10/1995	
5/22/1995	
5/31/1995	
6/7/1995	
6/14/1995	
6/21/1995	3310.0
6/21/1995	
6/28/1995	
7/5/1995	

	Jan.	Feb	Mar	Apr	May	June	July
	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al
	5800.0			5277.0	1800.0	3310.0	
				4000.0			

COLOR CODE:		1991	1992	1993	1994

Average of same day results

Date	Value
7/12/1995	
7/19/1995	
8/2/1995	
8/16/1995	
9/6/1995	4100.0
9/13/1995	
10/11/1995	
11/15/1995	
11/29/1995	3815.0
12/13/1995	
1/16/1996	5800.0
1/17/1996	
2/14/1996	
3/13/1996	
3/20/1996	
4/3/1996	
4/9/1996	4000.0
4/10/1996	
4/17/1996	
5/1/1996	
5/8/1996	
5/15/1996	
5/21/1996	1800.0
5/29/1996	
6/5/1996	
6/12/1996	
06/18/96	-9.0
6/19/1996	
6/26/1996	
7/3/1996	
7/10/1996	
7/12/1996	
7/16/1996	3900.0
8/7/1996	
8/14/1996	5200.0
08/14/96	-9.0
8/21/1996	
9/18/1996	
10/1/1996	5183.0
10/16/1996	
10/18/96	-9.0
11/07/96	-9.0
11/13/1996	
11/19/96	5558.0
12/13/96	-9.0
12/18/1996	
1/7/1997	6700.0

Date	Value
01/09/97	6083.3
1/15/1997	
01/30/97	5899.9
02/05/97	-9.0
2/12/1997	
02/25/97	6202.5
3/5/1997	6100.0
3/12/1997	
3/19/1997	
03/25/97	3104.7
4/2/1997	
04/11/97	-9.0
4/16/1997	
04/28/97	3059.0
4/30/1997	
5/7/1997	3000.0
05/14/97	2549.0
5/21/1997	
05/21/97	1943.6
5/28/1997	
05/29/97	2616.2
6/4/1997	
06/05/97	3496.6
06/10/97	-9.0
6/11/1997	
6/11/1997	
06/11/97	1561.2
06/17/97	1252.0
6/18/1997	
6/18/1997	
6/25/1997	
6/25/1997	
06/25/97	1312.2
7/2/1997	
7/2/1997	
07/02/97	1354.2
7/9/1997	2200.0
07/15/97	2047.0
7/16/1997	
7/16/1997	
07/29/97	2206.1
8/13/1997	-9.0
08/13/97	-9.0
08/13/97	2655.0
08/26/97	3918.5
08/26/97	118707.6
08/26/97	229780.5

Date	Value
08/29/97	**0.0**
9/11/1997	4400.0
9/11/97	-9.0
9/17/1997	-9.0
09/25/97	2064.3
10/08/97	-9.0
10/15/1997	-9.0
10/22/97	3225.3
11/12/1997	4700.0
11/12/1997	-9.0
11/26/97	4767.3
12/03/97	-9.0
12/17/1997	-9.0
12/23/97	6344.4
1/7/1998	5500.0
1/14/1998	-9.0
02/04/98	-9.0
2/11/1998	-9.0
02/12/98	6406.6
3/4/1998	-9.0
3/5/1998	6500.0
03/16/98	7398.5
3/18/1998	-9.0
4/1/1998	-9.0
04/08/98	
4/15/1998	-9.0
04/23/98	4131.3
4/29/1998	-9.0
5/5/1998	-9.0
05/06/98	4947.6
5/7/1998	3200.0
5/13/1998	-9.0
5/27/1998	
6/3/1998	-9.0
6/10/1998	-9.0
06/10/98	
6/17/1998	-9.0
6/24/1998	-9.0
7/1/1998	1500.0
7/8/1998	-9.0
7/15/1998	-9.0
7/22/1998	-9.0
08/05/98	
8/26/1998	-9.0
9/2/1998	4705.0
9/9/1998	4500.0
9/16/1998	-9.0

	Jan.	Feb	Mar	Apr	May	June	July
	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al
	5500.0	6406.6	6500.0	4131.3	4947.6	3012.0	1500.0
	6000.0	6028.0	7398.5		3200.0		4400.0
	5900.0		5500.0		4900.0		2000.0
	5519.0		7000.0		3600.0		
	4900.0		5691.0		4400.0		
			6400.0				

COLOR CODE:		1998	1999	2000	2001

1999 data when CC not treated is not include
Average of same day results

Date	Value
09/30/98	5409.7
10/07/98	
10/14/1998	-9.0
11/3/1998	5400.0
11/03/98	-9.0
11/18/1998	-9.0
1/6/1999	6000.0
1/6/1999	6000.0
1/13/1999	-9.0
02/04/99	
02/09/99	-9.0
2/24/1999	-9.0
3/3/1999	5500.0
3/17/1999	-9.0
4/1/1999	-9.0
04/07/99	
4/21/1999	-9.0
04/29/99	-9.0
5/6/1999	4900.0
05/26/99	-9.0
06/09/99	
06/09/99	-9.0
6/23/1999	3012.0
07/07/99	
07/15/99	-9.0
07/29/99	
8/4/1999	7600
8/4/1999	7600
8/17/1999	
9/1/1999	3500
9/13/1999	4282
10/6/1999	
10/14/1999	5492
11/3/1999	5400
11/17/1999	6293
12/1/99	
12/15/1999	5313.0
1/5/00	5900.0
1/12/2000	5519.0
2/2/00	
2/28/2000	6028.0
3/1/00	7000.0
3/15/2000	5691.0
4/5/00	
5/3/00	3600.0
6/7/00	
7/5/00	4400.0

Date	Value
8/2/00	
9/6/00	12000.0
10/4/00	
11/1/00	5000.0
12/6/00	
1/3/01	4900.0
2/6/01	
3/14/01	6400.0
4/4/01	
5/2/01	4400.0
6/6/01	
7/6/01	2000.0
8/1/01	
9/5/01	5300.0
10/3/01	
11/7/01	6400.0
12/5/01	
1/2/02	7700.0
2/6/02	
3/6/02	9000.0
4/3/02	
5/1/02	
6/5/02	1340.0
6/27/2002	4471.0
7/3/02	5060.0
7/17/2002	5337.0
8/7/02	
8/14/2002	5135.0
9/4/02	5410.0
9/18/2002	4050.0
10/2/02	
10/25/2002	6834.0
11/6/02	5450.0
11/12/2002	5340
12/4/02	
12/8/2002	5883
1/8/2003	6314
1/9/03	5980.0
2/1/2003	7202
2/5/03	
3/3/03	6345.0
3/9/2003	6548
4/24/2003	5267
5/7/2003	4.3
5/7/2003	4253
6/2/2003	1850
7/2/2003	3085.0

Date	Value
7/2/2003	3125.0
8/14/2003	7247.0
9/11/2003	5760.0
9/11/2003	4906.0
10/4/2003	5068.0
11/6/03	5820.0
12/29/2003	6071.0
1/16/2004	6519.0
2/13/2004	6961.0
3/3/04	8120.0
3/3/2004	6345
4/16/2004	5526.0
5/5/04	2830.0
5/5/2004	3355.0
5/28/2004	1863.0
6/17/2004	1693.0
7/7/04	2730.0
7/7/2004	3142.0
8/19/2004	6119.0
9/1/04	7500.0
9/15/2004	7067.0
10/14/04	5697.0
11/10/04	5150.0
11/10/2004	6264.0
12/8/2004	7535.0
1/20/2005	6843.0
2/15/05	6774.0
3/2/2005	7100
3/13/2005	5759.0
4/9/05	5169.0
5/4/2005	4990
5/4/05	4500.0
6/9/2005	1391
7/6/2005	1890
07/06/2005	1890
7/6/2005	1644
8/10/05	6856
9/14/05	10670
9/15/2005	6770
09/15/2005	6770
11/2/05	6288
11/2/2005	6400
11/2/05	7062
12/20/05	7668
1/6/06	7062
01/06/2006	7070
2/8/06	8514

1799563

Date	Value
~~2/8/06~~	~~6963~~
~~3/7/06~~	~~6646~~
03/15/2006	7420
3/15/2006	6963
4/5/06	
4/5/2006	6646
05/10/2006	2930
5/10/2006	3195
6/6/06	1591
~~7/12/06~~	~~4269~~
07/12/2006	3860
7/12/2006	4269
8/2/2006	4945
09/06/2006	6350
~~9/6/2006~~	~~6505~~
10/11/2006	3322
11/01/2006	5220
11/1/2006	5581
12/5/2006	7479
1/11/2007	7821
2/6/2007	6931
03/07/2007	8100
3/7/2007	7878
4/2/2007	5043
05/11/2007	2850
5/11/2007	2417
6/5/2007	1584
07/11/2007	4010
7/11/2007	3485
8/6/2007	5875
09/05/2007	6800
10/25/2007	5286
11/07/2007	6180
11/7/2007	6866
1/2/2008	7770.0
1/2/2008	7663
3/12/2008	7860.0
3/12/2008	7635
4/10/2008	6833
5/7/2008	2910.0
5/7/2008	2846
6/3/2008	4472
7/9/2008	2330.0
7/9/2008	2248
8/5/2008	4774
~~9/3/2008~~	~~13200.0~~
9/3/2008	6247

Jan.	Feb	Mar	Apr	May	June	July
TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al
7821	6931	7989	5043	2634	1584	3748
7717	7884	7748	6833	2878	4472	2289
6130	8610	8390	8739	3375	1945	3316
7754	6699	7215	8179	1780	2920	4120
		9006	5010	3572	1735	4565
		8100	5504	6280	1930	5270
		7960		3380	1610	1676
		7540				2710

COLOR CODE: 2006 2007 2008 2009

Average of same day results

10/6/2008	6880
11/7/2008	6660.0
11/7/2008	7508
12/3/2008	7229
1/8/2009	6130
1/8/2009	4750
2/6/2009	7884
3/3/2009	8390.0
3/4/2009	6750
3/4/2009	7680
4/6/2009	8739
5/13/2009	3190
5/13/2009	3560
5/19/2009	1780
6/2/2009	1945
6/16/2009	2920
6/16/2009	
6/16/2009	
6/16/2009	
7/8/2009	3300
7/8/2009	3331
7/14/2009	
7/14/2009	4120
7/14/2009	
7/14/2009	
8/12/2009	6789
8/18/2009	7110
8/18/2009	
8/18/2009	
8/18/2009	7010
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	6590
9/16/2009	7689
9/22/2009	7050
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	6080
11/4/2009	7800
11/4/2009	7800.0
11/5/2009	43
11/17/2009	
11/17/2009	7850
11/17/2009	
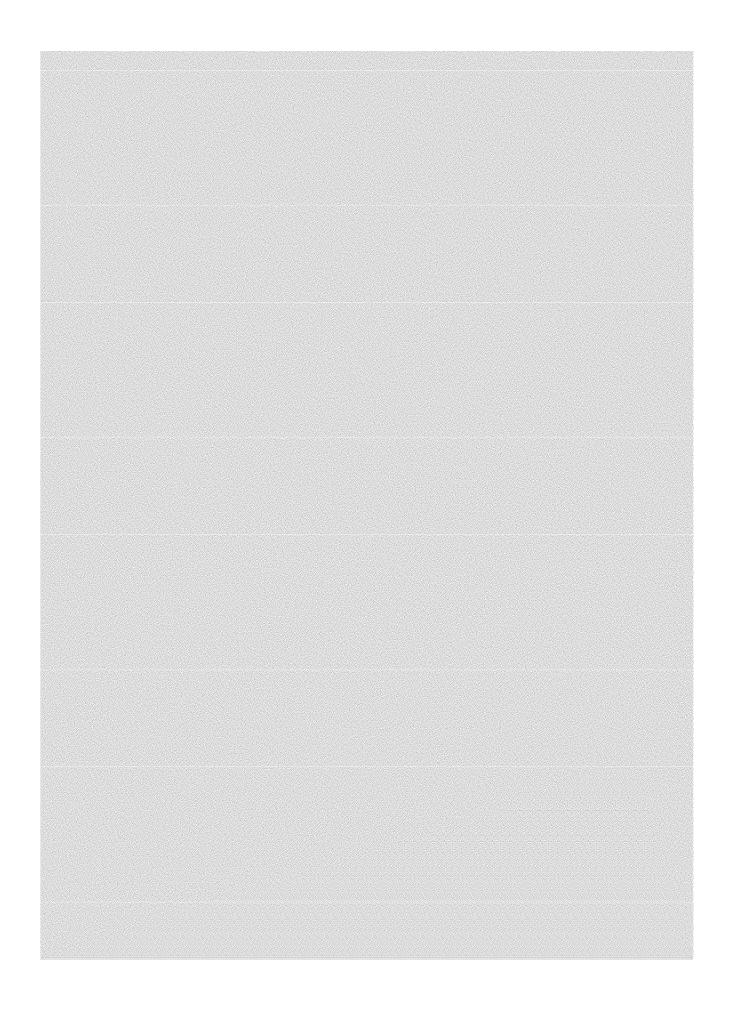
Date	Value
12/1/2009	182
2/17/2010	
2/17/2010	8610
2/17/2010	
2/17/2010	8560
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	9006
3/17/2010	8100
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	8179
4/13/2010	
4/13/2010	5010
4/13/2010	
4/13/2010	5020
5/5/2010	3804
5/5/2010	3340.0
6/2/2010	1835
6/2/2010	1750
6/2/2010	1720
6/2/2010	
6/2/2010	
7/8/2010	4450
7/8/2010	4680.0
7/13/2010	
7/13/2010	5270
7/13/2010	
8/10/2010	6292
9/9/2010	7070
9/9/2010	6940.0
9/14/2010	
9/14/2010	7230
9/14/2010	
9/14/2010	6930
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	7009
11/2/2010	
11/2/2010	7930
11/2/2010	

Date	Value
11/2/2010	
11/2/2010	
11/2/2010	**7810**
11/2/2010	
11/2/2010	
11/3/2010	6957
11/3/2010	7110.0
12/7/2010	7350
1/5/2011	7658
1/5/2011	7850.0
2/11/2011	6699
3/9/2011	8360
3/9/2011	7560
3/15/2011	7540
4/6/2011	5504
5/4/2011	6280
5/8/2011	3380
6/3/2011	1930
6/14/2011	1610
7/5/2011	1676
7/19/2011	2710
8/1/2011	3924
8/16/2011	5830
9/7/2011	6227
9/7/2011	6300
9/13/2011	6770
10/7/2011	5762
10/18/2011	6810
11/2/2011	7040
11/2/2011	5679
12/7/2011	8584
1/5/2012	6867
2/9/2012	6826
3/7/2012	7677
4/3/2012	3732
5/2/2012	2779
5/15/2012	2690
6/2/2012	2172
8/6/2012	5634
9/4/2012	5889
10/2/2012	7670
10/3/2012	7469
10/4/2012	7890
11/7/2012	8131
12/10/2012	9799
1/7/2013	8961
2/7/2013	0

Jan. TRec Al	Feb TRec Al	Mar TRec Al	Apr TRec Al	May TRec Al	June TRec Al	July TRec Al
6867	6826	7677	3732	2779	2172	7932
8961	9608	9521	8917	2690	2036	2617
8468			5764	4398	1813	
				2690		
				3280		

COLOR CODE: 2012   2013   2014

Average of same day results
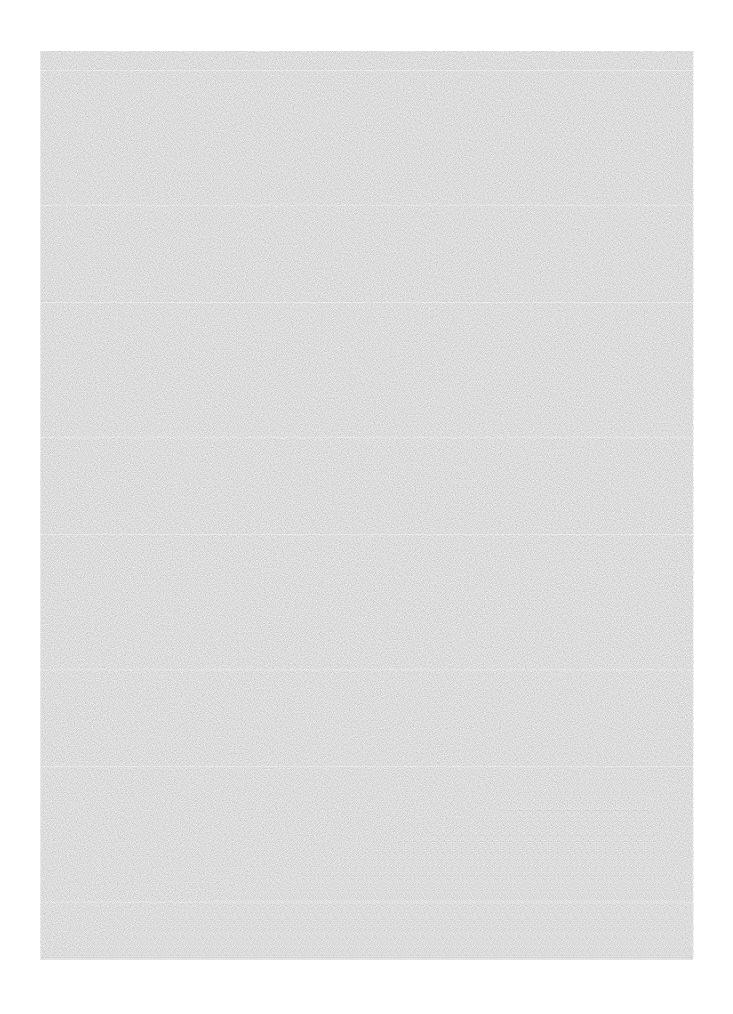
Date	Value
3/11/2013	
4/10/2013	8917
5/7/2013	4398
5/14/2013	2690
6/5/2013	2036
7/7/2013	7932
8/4/2013	6745
9/10/2013	6546
10/2/2013	4461
11/8/2013	8223
12/13/2013	9209
1/8/2014	8468
2/7/2014	9608
3/5/2014	9521
4/10/2014	5764
5/6/2014	3280
6/6/2014	1813
7/1/2014	2617
8/1/2014	6370
9/5/2014	9717
9/23/2014	938
10/2/2014	5707
11/7/2014	7320
12/5/2014	10387

	Aug	Sept	Oct	Nov	Dec
	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al
		4600.0		4100.0	
		4700.0		3815.0	
		5000.0			
		4200.0			
		3800.0			
		4100.0			

1995	1996

	Aug	Sept	Oct	Nov	Dec
	TRec Al	TRec Al	TRec Al	TRec Al	TRec Al
		4705.0		5400.0	5313.0
		4500.0		5000.0	
		5409.7		6400.0	
		12000.0			
		5300.0			
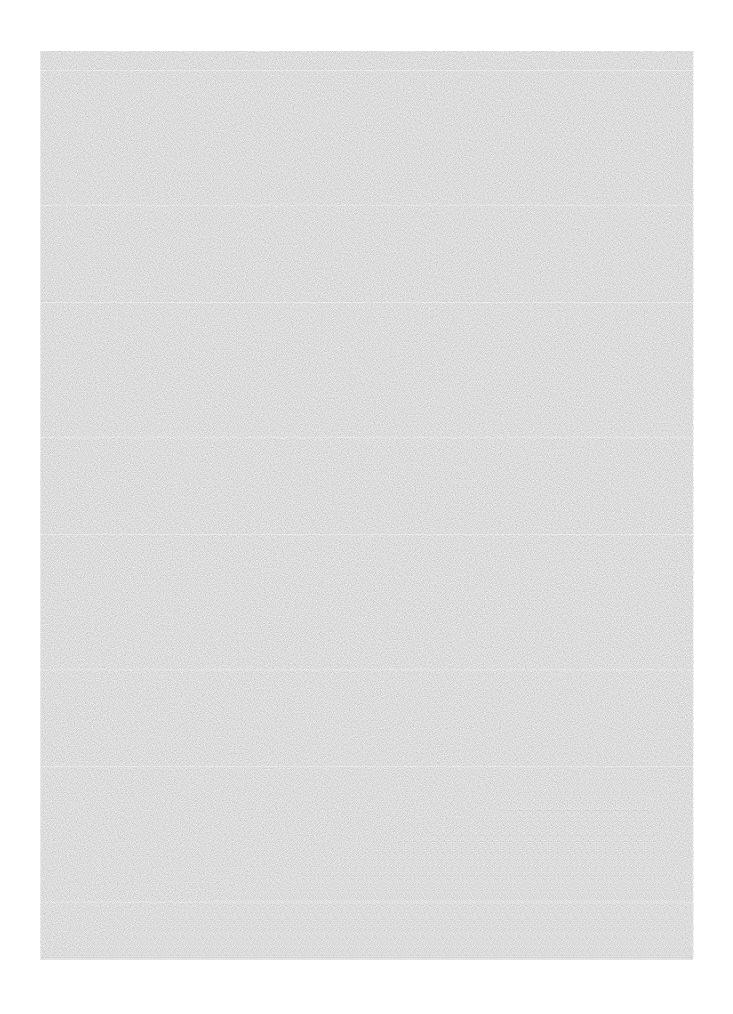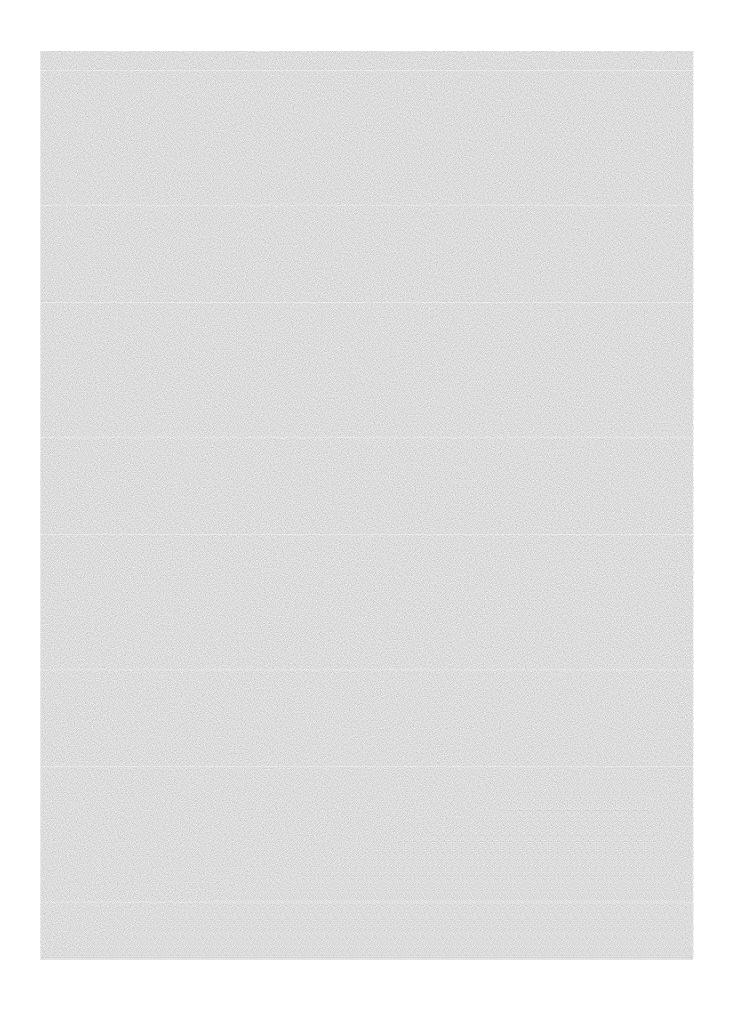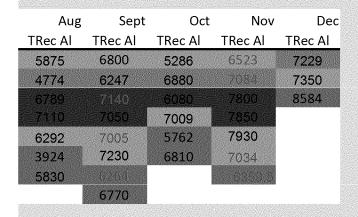
	Jan.
50th Trec Al 1998-2001	5519
Ave. Trec Al 1998-2001	5564
Ave. monthly flows 1998-2001 (cfs)	13.0
Trec Al Load 1998-2001 lbs/day	390

d (Aug-Nov)

	Aug TRec Al	Sept TRec Al	Oct TRec Al	Nov TRec Al	Dec TRec Al
	5875	6800	5286	6523	7229
	4774	6247	6880	7084	7350
	6789	7140	6080	7800	8584
	7110	7050	7009	7850	
	6292	7005	5762	7930	
	3924	7230	6810	7034	
	5830	6264		6359.5	
		6770			
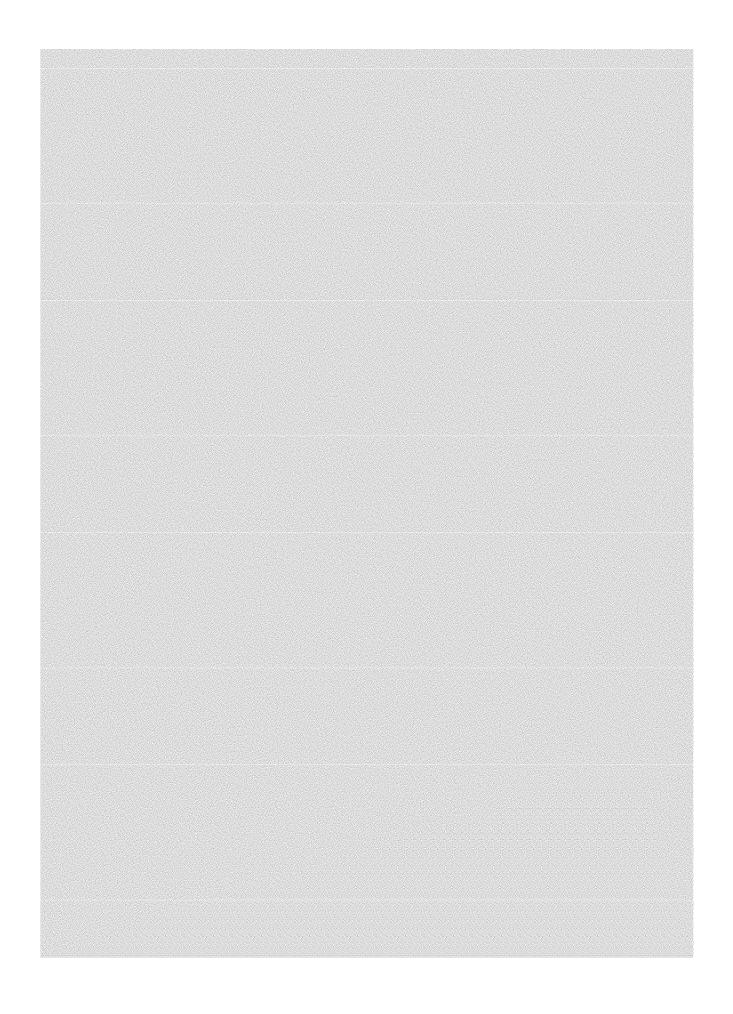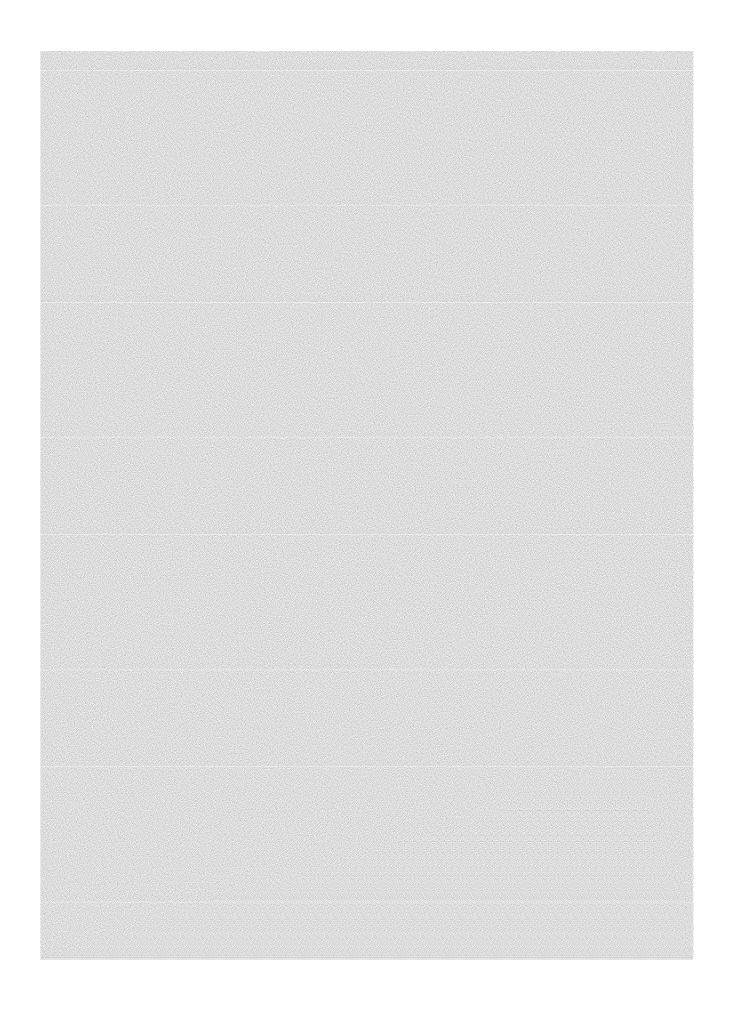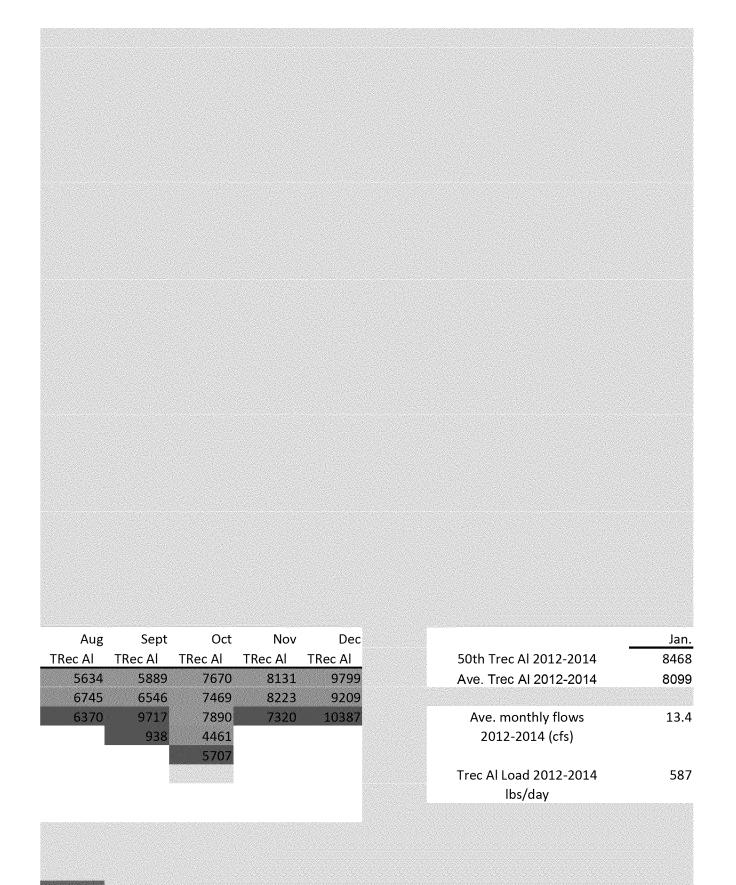
	Jan.
50th Trec Al 2007-2011	7735
Ave. Trec Al 2007-2011	7355
Ave. monthly flows 2007-2011 (cfs)	13.1
Trec Al Load 2007-2011 lbs/day	520

2010	2011

	Aug TRec Al	Sept TRec Al	Oct TRec Al	Nov TRec Al	Dec TRec Al
	5634	5889	7670	8131	9799
	6745	6546	7469	8223	9209
	6370	9717	7890	7320	10387
		938	4461		
			5707		

	Jan.
50th Trec Al 2012-2014	8468
Ave. Trec Al 2012-2014	8099
Ave. monthly flows 2012-2014 (cfs)	13.4
Trec Al Load 2012-2014 lbs/day	587
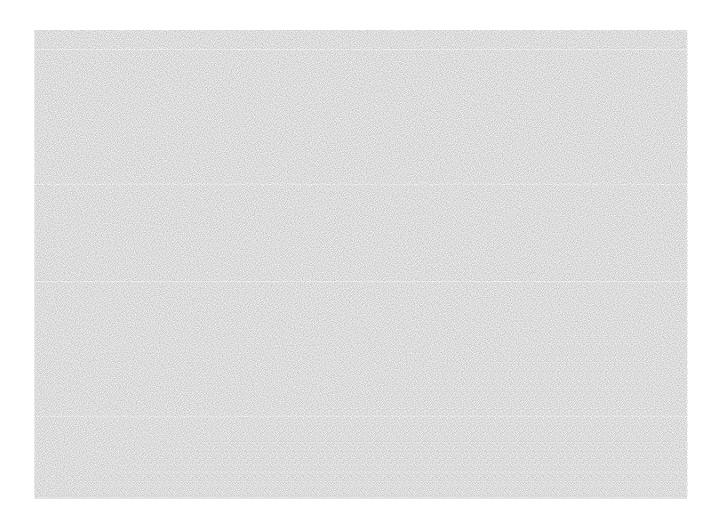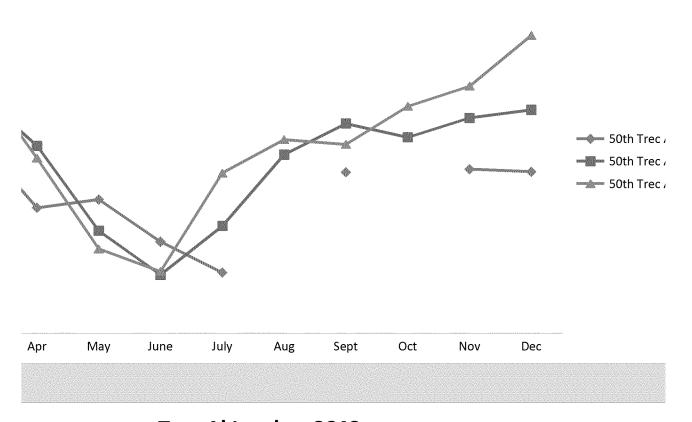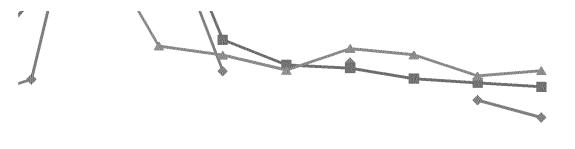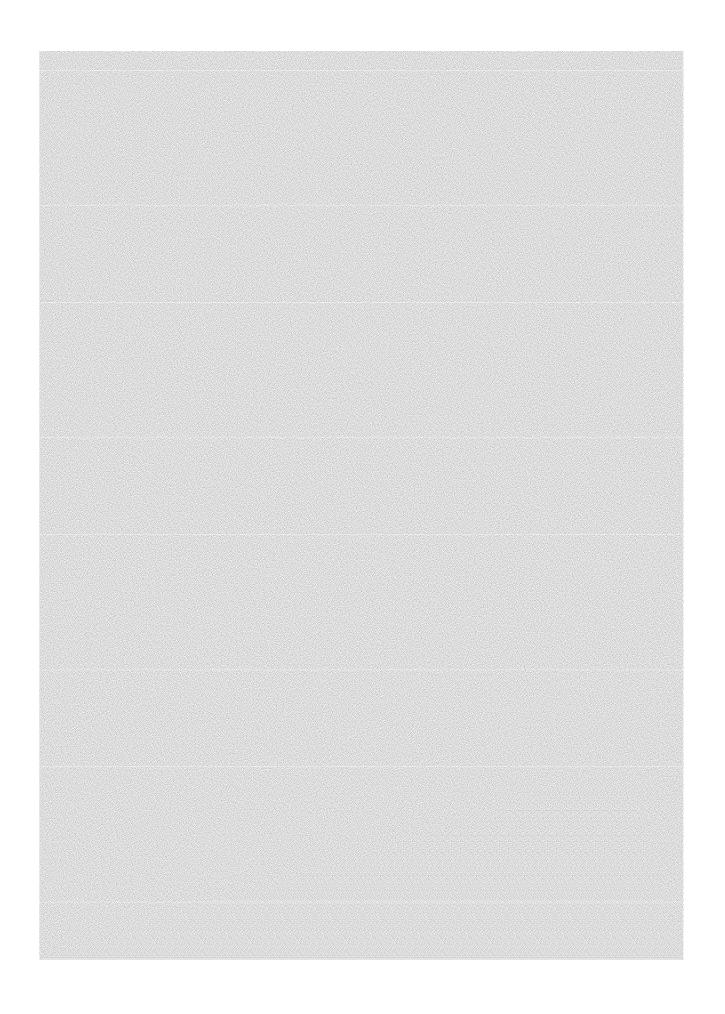
Trec Al Conc. At CC48

Apr May June July Aug Sept Oct Nov Dec

Legend:
- 50th Trec ,
- 50th Trec ,
- 50th Trec ,

Trec Al Load at CC48

Legend:
- Trec Al I
- Trec Al I
- Trec Al I

Apr   May   June   July   Aug   Sept   Oct   Nov   Dec
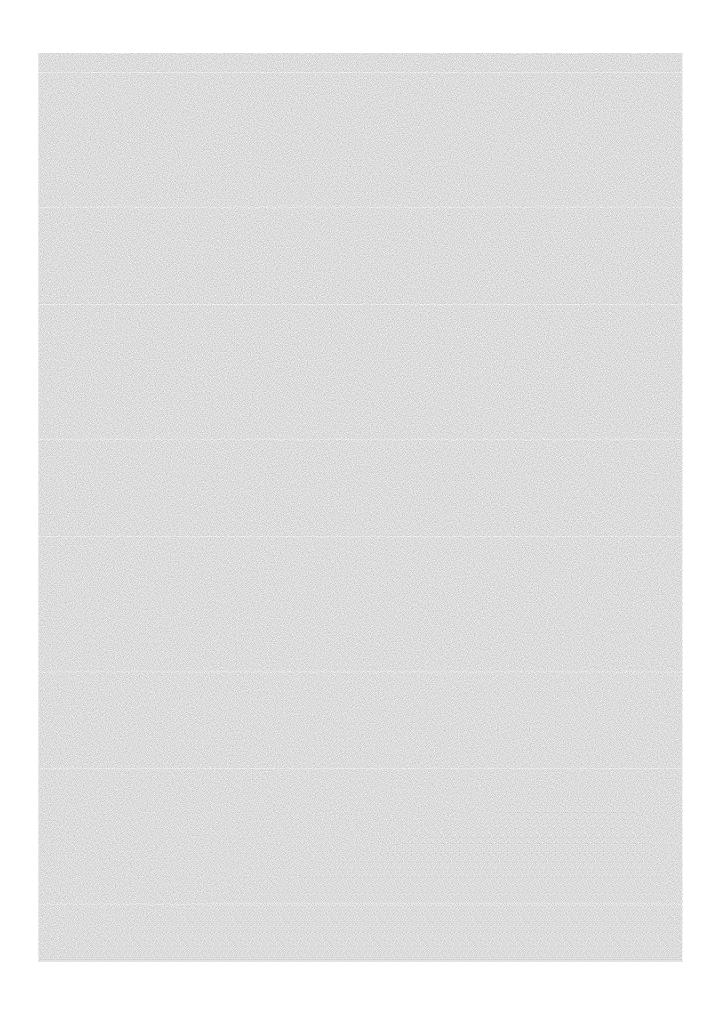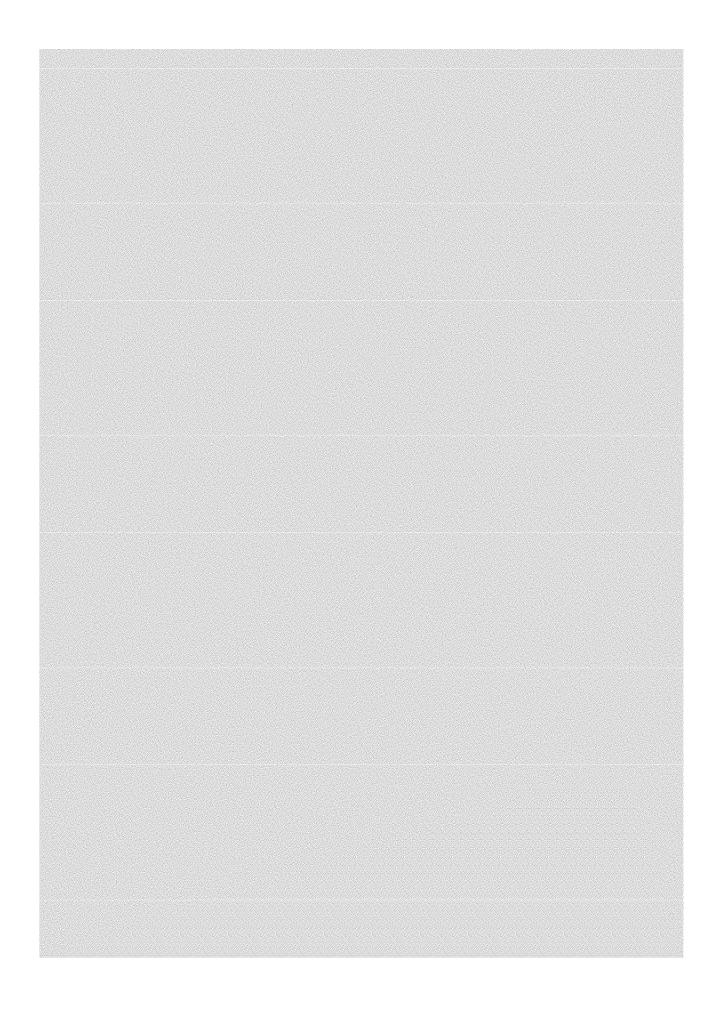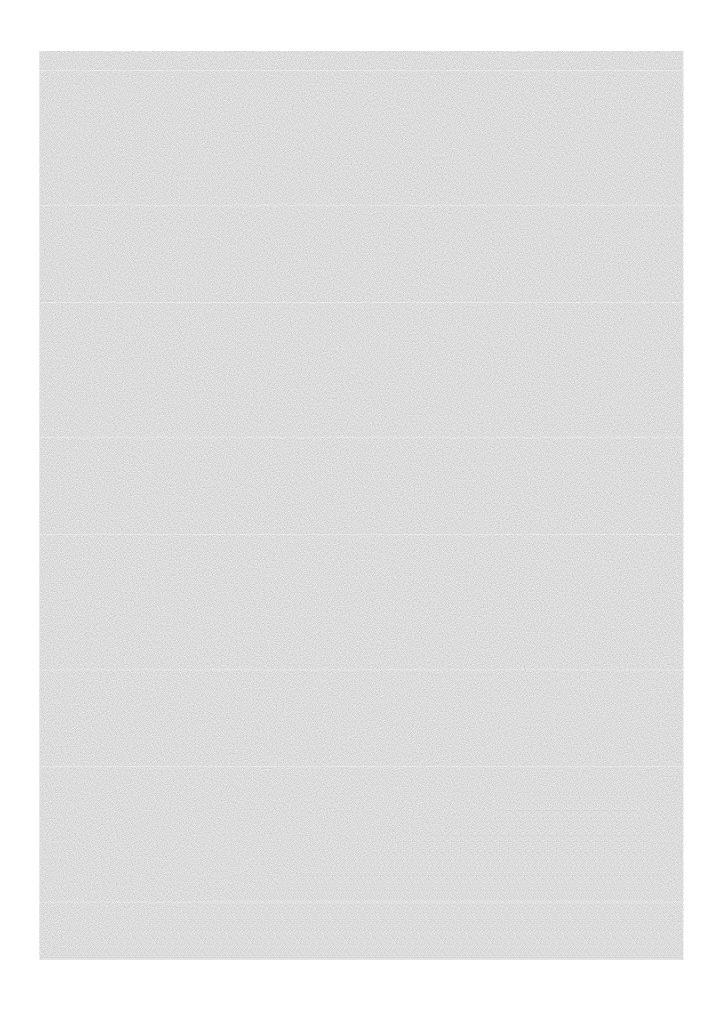
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
6217	6450	4131	4400	3012	2000		5300		5400
6217	6415	4131	4210	3012	2633		6383		5600
12.3	14.5	28.7	107.8	112.5	48.9	28.4	21.9	17.3	16.5
411	501	638	2447	1827	695		753		497
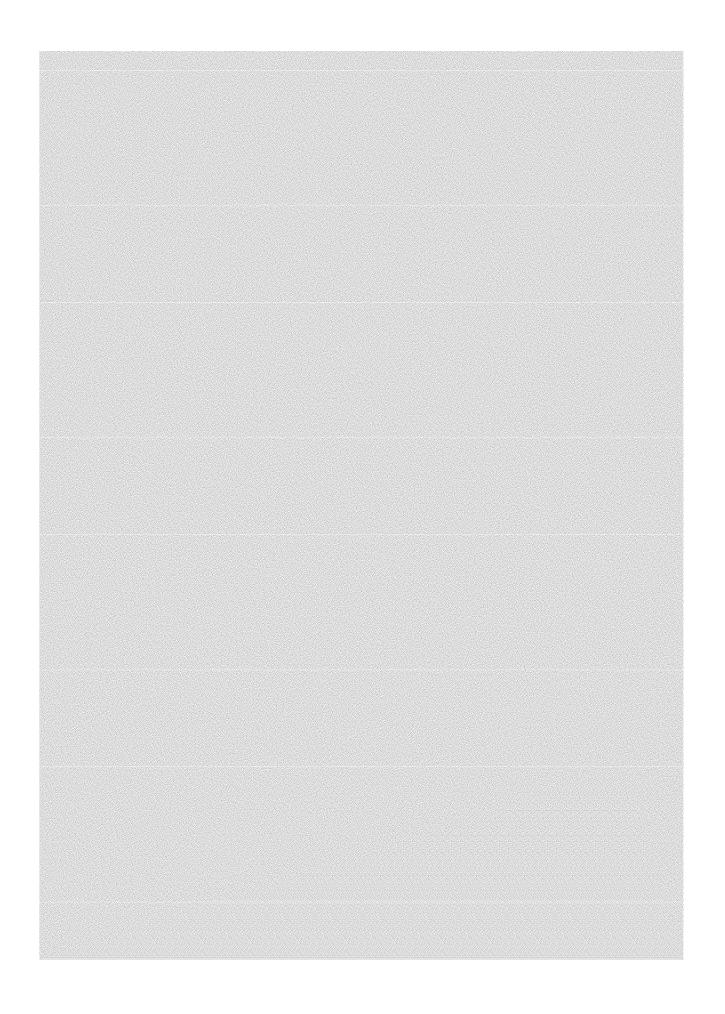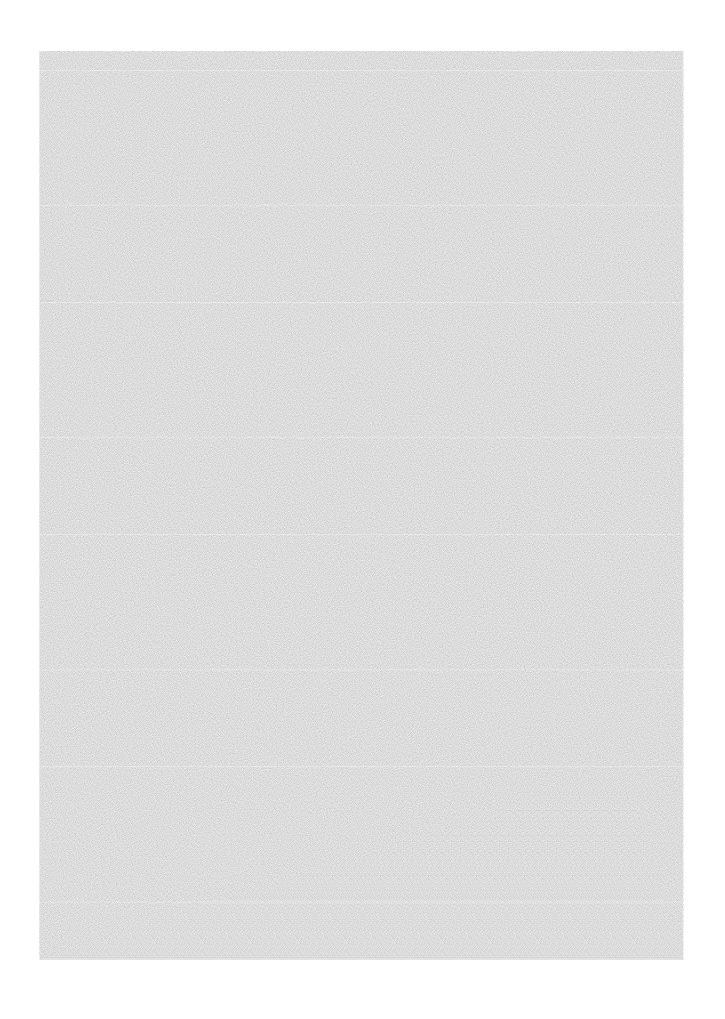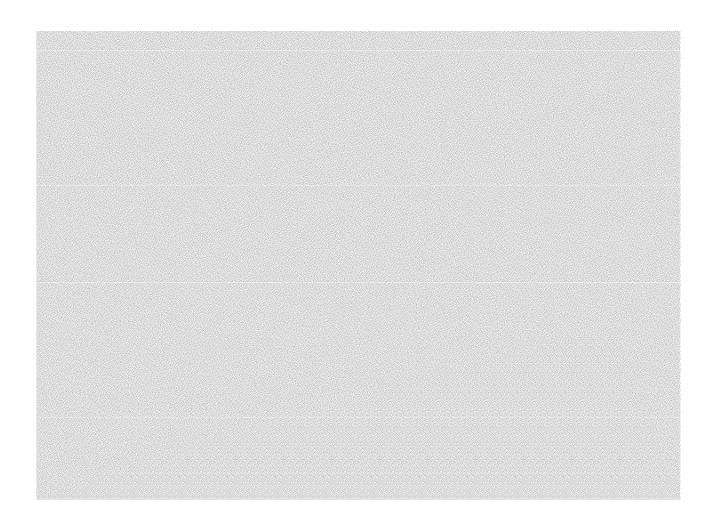
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
7408	7975	6169	3375	1930	3532	5875	6903	6445	7084
7531	7993	6551	3414	2314	3462	5799	6813	6305	7226
12.8	15.6	33.4	118.2	157.7	48.7	23.6	19.5	18.9	15.8
518	673	1179	2175	1967	909	737	716	643	615

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
8217	8599	5764	2779	2036	5275	6370	6218	7469	8131
8217	8599	6138	3167	2007	5275	6250	5773	6639	7891
13.6	17.0	39.0	94.5	80.0	28.3	20.8	27.3	22.5	15.6
604	790	1292	1614	866	804	701	849	805	662

AI 1998-2001

AI 2007-2011

AI 2012-2014

Load 1998-2001

Load 2007-2011

Load 2012-2014

Dec
5313
5313
13.2
379

Dec
7350
7721
14.1
588

Dec
9799
9798
13.2
697

DATE	PB_DIS
2/11/1991	22.00
3/28/1991	20.00
4/23/1991	20.00
09/05/91	20.00
9/6/1991	27.00
9/7/1991	31.00
9/9/1991	15.00
9/10/1991	17.00
6/23/1992	11.00
6/24/1992	6.00
6/25/1992	<5
07/23/92	13.90
9/20/1992	-9.00
10/14/1992	5.50
10/15/1992	7.30
7/20/1993	20.00
7/21/1993	10.00
11/2/1993	11.00
3/16/1994	20.00
6/30/1994	20.00
9/29/1994	12
10/12/1994	6.50
11/9/94	8.70
11/9/1994	3.10
12/13/1994	8.3
1/18/1995	2.6
2/15/1995	6.7
3/1/1995	6.5
3/15/1995	<3
4/6/1995	<3
4/12/1995	14.00
4/12/1995	12.4
4/19/1995	5.3
5/3/1995	6.3
5/10/1995	5.5
5/22/1995	-9.00
5/31/1995	10.50
6/7/1995	18.00
6/14/1995	-9.00
6/21/1995	13.00
6/21/1995	8.60
6/28/1995	8.90
7/5/1995	15.00

Jan. Pb	Feb Pb	Mar Pb	Apr Pb	May Pb	June Pb	July Pb
22.00	6.7	20.00	20.00	6.3	11.00	13.90
2.6	12.40	20.00	1.5	5.5	6.00	20.00
17.00		6.5	13.20	10.50	2.50	10.00
1.2		1.5	5.3	22.50	20.00	15.00
		4.40	7.80	17.30	18.00	11.70
		6.70	22.00	9.30	10.80	10.50
			22.10	14.00	8.90	
			11.70	15.60	8.90	
					1.50	
					10.00	
					3.90	
					5.20	

COLOR CODE: 1991 1992 1993 1994

Average of same day results

Date	Value
7/12/1995	11.70
7/19/1995	10.50
8/2/1995	2.50
8/16/1995	5.5
9/6/1995	23.00
9/13/1995	6.1
10/11/1995	5.9
11/15/1995	2.9
11/29/1995	14.60
12/13/1995	1.6
1/16/1996	17.00
1/17/1996	1.2
2/14/1996	12.40
3/13/1996	4.40
3/20/1996	6.70
4/3/1996	7.80
4/9/1996	22.00
4/10/1996	22.10
4/17/1996	11.70
5/1/1996	22.50
5/8/1996	17.30
5/15/1996	9.30
5/21/1996	14.00
5/29/1996	15.60
6/5/1996	8.90
6/12/1996	1.50
06/18/96	10.00
6/19/1996	3.90
6/26/1996	5.20
7/3/1996	8.90
7/10/1996	12.70
7/12/1996	9.50
7/16/1996	20.00
8/7/1996	10.30
8/14/1996	20.00
08/14/96	30.00
8/21/1996	5.80
9/18/1996	8.00
10/1/1996	10.30
10/16/1996	7.30
10/18/96	12.00
11/07/96	16.00
11/13/1996	8.00
11/19/96	*<30*
12/13/96	11.00
12/18/1996	5.20
1/7/1997	15.00
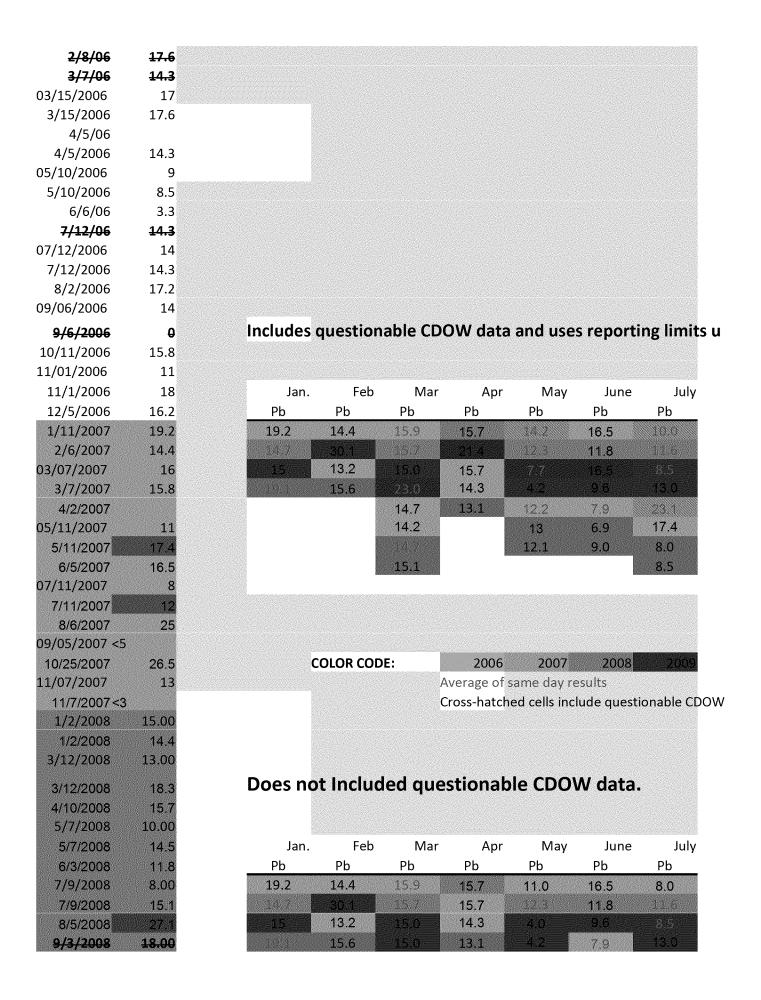
01/09/97	<30
1/15/1997	7.10
01/30/97	<30
02/05/97	19.00
2/12/1997	7.50
02/25/97	<30
3/5/1997	15.00
3/12/1997	9.40
3/19/1997	8.20
03/25/97	<30
4/2/1997	7.30
04/11/97	<5
4/16/1997	11.30
04/28/97	<30
4/30/1997	8.40
5/7/1997	14.00
05/14/97	<30
5/21/1997	8.20
05/21/97	<30
5/28/1997	8.50
05/29/97	<30
6/4/1997	7.40
06/05/97	50.17
06/10/97	18.00
6/11/1997	12.80
6/11/1997	12.80
06/11/97	<30
06/17/97	<30
6/18/1997	6.30
6/18/1997	6.30
6/25/1997	7.40
6/25/1997	7.40
06/25/97	<30
7/2/1997	4.50
7/2/1997	4.50
07/02/97	<30
7/9/1997	9.00
07/15/97	<30
7/16/1997	4.00
7/16/1997	4.00
07/29/97	<30
8/13/1997	5.60
08/13/97	6.00
08/13/97	<30
08/26/97	**0.00**
08/26/97	**0.00**
08/26/97	**0.00**

08/29/97 <30
9/11/1997 16.00
9/11/97 6.60
9/17/1997 7.20
09/25/97 <30
10/08/97 10.00
10/15/1997 5.10
10/22/97 <30
11/12/1997 12.00
11/12/1997 6.10
11/26/97 <30
12/03/97 19.00
12/17/1997 8.20
12/23/97 <30
1/7/1998 16.00
1/14/1998 8.00
02/04/98 14.00
2/11/1998 5.50
02/12/98 <30
3/4/1998 9.50
3/5/1998 14.00
03/16/98 <30
3/18/1998 7.90
4/1/1998 9.90
04/08/98 11.00
4/15/1998 -9.00
04/23/98 <30
4/29/1998 10.50
5/5/1998 16.20
05/06/98 <30
5/7/1998 13.00
5/13/1998 13.60
5/27/1998 13.6
6/3/1998 3.60
6/10/1998 5.30
06/10/98 7.00
6/17/1998 4.10
6/24/1998 1.60
7/1/1998 4.00
7/8/1998 2.70
7/15/1998 -9.00
7/22/1998 7.20
08/05/98 9.00
8/26/1998 -9.00
9/2/1998 11.70
9/9/1998 14.00
9/16/1998 6.40

Jan. Pb	Feb Pb	Mar Pb	Apr Pb	May Pb	June Pb	July Pb
16.00	14.00	9.50	9.90	16.20	3.60	4.00
8.00	5.50	14.00	11.00	13.00	6.15	2.70
11.00	2.50	7.90	10.50	13.60	4.10	7.20
7.40	8.40	12.00	7.30	13.6	1.60	12.00
1.00	6.00	7.10	2.50	36.00	6.00	12.00
10.10	7.70	8.00	9.90	1.00	2.40	4.00
12.00	6.00	9.00	8.00		2.50	
		7.00	7.00		9.00	

COLOR CODE: 1998   1999   2000   2001

1999 data when CC not treated is not included (
Average of same day results
Didn't use reporting limits of <30

Date	Value	Note
09/30/98	<30	
10/07/98	15.00	
10/14/1998	7.10	
11/3/1998	12.00	
11/03/98	<30	
11/18/1998	7.20	
1/6/1999	11.00	
1/6/1999	11.00	
1/13/1999	7.40	
02/04/99	<5	
02/09/99	<30	
2/24/1999	8.40	
3/3/1999	12.00	
3/17/1999	7.10	
4/1/1999	7.30	
04/07/99	<5	
4/21/1999	9.90	
04/29/99	<30	
5/6/1999	-9.00	
05/26/99	<30	
06/09/99	6.00	
06/09/99	<30	
6/23/1999	2.40	
07/07/99	12.00	
07/15/99	<30	
07/29/99	<30	
8/4/1999	15.00	Cement Creek not treated
8/4/99	15.00	Cement Creek not treated
08/17/99	<30	Cement Creek not treated
9/1/1999	12.00	Cement Creek not treated
9/13/1999	28.00	Cement Creek not treated
10/06/99	12.00	Cement Creek not treated
10/14/1999	14.10	Cement Creek not treated
11/3/99	10.00	Cement Creek not treated
11/17/1999	13.40	Cement Creek not treated
12/1/99	<5	
12/15/1999	7.00	
1/5/00	1.00	
1/12/2000	10.10	
2/2/00	6.00	
2/28/2000	7.70	
3/1/00	8.00	
3/15/2000	9.00	
4/5/00	8.00	
5/3/00	36.00	
6/7/00	<5	
7/5/00	12.00	

Date	Value
8/2/00	10.00
9/6/00	27.00
10/4/00	8.00
11/1/00	9.00
12/6/00	6.00
1/3/01	12.00
2/6/01	6.00
3/14/01	7.00
4/4/01	7.00
5/2/01	1.00
6/6/01	9.00
7/6/01	4.00
8/1/01	14.00
9/5/01	7.10
10/3/01	<5
11/7/01	9.70
12/5/01	8.00
1/2/02	8.10
2/6/02	6.00
3/6/02	8.40
4/3/02	<5
5/1/02	<5
6/5/02	<1
6/27/2002	5.70
7/3/02	8.00
7/17/2002	<3
8/7/02	<5
8/14/2002	8.10
9/4/02	9.00
9/18/2002	5.50
10/2/02	9.00
10/25/2002	4.10
11/6/02	5.00
11/12/2002	3.5
12/4/02	<5
12/8/2002	<3
1/8/2003	4.6
1/9/03	7.00
2/1/2003	8.6
2/5/03	9.00
3/3/03	14.50
3/9/2003	12
4/24/2003	11.7
5/7/2003	14.80
5/7/2003	15.6
6/2/2003	10.5
7/2/2003	11.28

7/2/2003	10.70	
8/14/2003	8.00	
9/11/2003		
9/11/2003	13.50	
10/4/2003	10.10	
11/6/03	15.00	
12/29/2003	-9.00	
1/16/2004	17.70	
2/13/2004	24.00	
3/3/04	16.00	
3/3/2004		14.5
4/16/2004	16.50	
5/5/04	20.00	
5/5/2004	26.30	
5/28/2004	12.90	
6/17/2004	8.10	
7/7/04	6.00	
7/7/2004	10.90	
8/19/2004	17.00	
9/1/04	14.00	
9/15/2004	23.00	
10/14/04	16.60	
11/10/04	14.00	
11/10/2004	10.80	
12/8/2004	12.60	
1/20/2005	8.70	
2/15/05	5.90	
3/2/2005		18
3/13/2005	7.40	
4/9/05	14.60	
5/4/2005		15
5/4/05	13.10	
6/9/2005		3.1
7/6/2005		6
07/06/2005		6
7/6/2005	<3	
8/10/2005		11.1
9/14/05		13.2
9/15/2005		18
09/15/2005		18
10/13/05		16.1
11/2/05		12.9
11/2/2005		15
12/20/05		16.2
1/6/06		12.2
01/06/2006		17
2/8/06		14.1

Date	Value
~~2/8/06~~	~~17.6~~
~~3/7/06~~	~~14.3~~
03/15/2006	17
3/15/2006	17.6
4/5/06	
4/5/2006	14.3
05/10/2006	9
5/10/2006	8.5
6/6/06	3.3
~~7/12/06~~	~~14.3~~
07/12/2006	14
7/12/2006	14.3
8/2/2006	17.2
09/06/2006	14
~~9/6/2006~~	~~0~~
10/11/2006	15.8
11/01/2006	11
11/1/2006	18
12/5/2006	16.2
1/11/2007	19.2
2/6/2007	14.4
03/07/2007	16
3/7/2007	15.8
4/2/2007	
05/11/2007	11
5/11/2007	17.4
6/5/2007	16.5
07/11/2007	8
7/11/2007	12
8/6/2007	25
09/05/2007	<5
10/25/2007	26.5
11/07/2007	13
11/7/2007	<3
1/2/2008	15.00
1/2/2008	14.4
3/12/2008	13.00
3/12/2008	18.3
4/10/2008	15.7
5/7/2008	10.00
5/7/2008	14.5
6/3/2008	11.8
7/9/2008	8.00
7/9/2008	15.1
8/5/2008	27.1
~~9/3/2008~~	~~18.00~~

Includes questionable CDOW data and uses reporting limits u

Jan. Pb	Feb Pb	Mar Pb	Apr Pb	May Pb	June Pb	July Pb
19.2	14.4	15.9	15.7	14.2	16.5	10.0
14.7	30.1	15.7	21.4	12.3	11.8	11.6
15	13.2	15.0	15.7	7.7	16.5	8.5
19.1	15.6	23.0	14.3	4.2	9.6	13.0
		14.7	13.1	12.2	7.9	23.1
		14.2		13	6.9	17.4
		14.7		12.1	9.0	8.0
		15.1				8.5

COLOR CODE: 2006 2007 2008 2009
Average of same day results
Cross-hatched cells include questionable CDOW

Does not Included questionable CDOW data.

Jan. Pb	Feb Pb	Mar Pb	Apr Pb	May Pb	June Pb	July Pb
19.2	14.4	15.9	15.7	11.0	16.5	8.0
14.7	30.1	15.7	15.7	12.3	11.8	11.6
15	13.2	15.0	14.3	4.0	9.6	8.5
19.1	15.6	15.0	13.1	4.2	7.9	13.0

Date	Value
9/3/2008	33.4
10/6/2008	34.5
11/7/2008	-9.00
11/7/2008	37.4
12/3/2008	32.5
1/8/2009	15
1/8/2009	3.6
2/6/2009	30.1
3/3/2009	15.00
3/4/2009	15
3/4/2009	31
4/6/2009	21.4
5/13/2009	4
5/13/2009	11.3
5/19/2009	4.2
6/2/2009	18.5
6/16/2009	9.6
6/16/2009	
6/16/2009	
6/16/2009	
7/8/2009	8
7/8/2009	9
7/14/2009	
7/14/2009	13
7/14/2009	
7/14/2009	
8/12/2009	15.9
8/18/2009	16.8
8/18/2009	
8/18/2009	
8/18/2009	16.6
8/18/2009	
8/18/2009	
8/18/2009	
8/18/2009	
9/16/2009	18
9/16/2009	22.3
9/22/2009	14.5
9/22/2009	
9/22/2009	
9/22/2009	
10/5/2009	18.2
11/4/2009	13
11/4/2009	13.00
11/5/2009	0
11/17/2009	
11/17/2009	16.2

14.7		12.2	6.9	17.00
14.2		13	9.0	17.4
14.7		12.1		8.0
15.1				8.5

COLOR CODE:

2006	2007	2008	2009

Average of same day results

Date	Value
11/17/2009	
12/1/2009	0
2/17/2010	
2/17/2010	13.2
2/17/2010	
2/17/2010	**13.1**
2/17/2010	
2/17/2010	
2/17/2010	
2/17/2010	
3/2/2010	14.7
3/17/2010	14.2
3/17/2010	
3/17/2010	
3/17/2010	
4/6/2010	15.7
4/13/2010	
4/13/2010	14.3
4/13/2010	
4/13/2010	**13.9**
5/5/2010	12.3
5/5/2010	12.00
6/2/2010	9.6
6/2/2010	6.2
6/2/2010	**8**
6/2/2010	
6/2/2010	
7/8/2010	29.1
7/8/2010	17.00
7/13/2010	
7/13/2010	17.4
7/13/2010	
8/10/2010	18.3
9/9/2010	18.5
9/9/2010	20.00
9/14/2010	
9/14/2010	16.8
9/14/2010	
9/14/2010	**16.3**
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
9/14/2010	
10/4/2010	22
11/2/2010	
11/2/2010	16.9
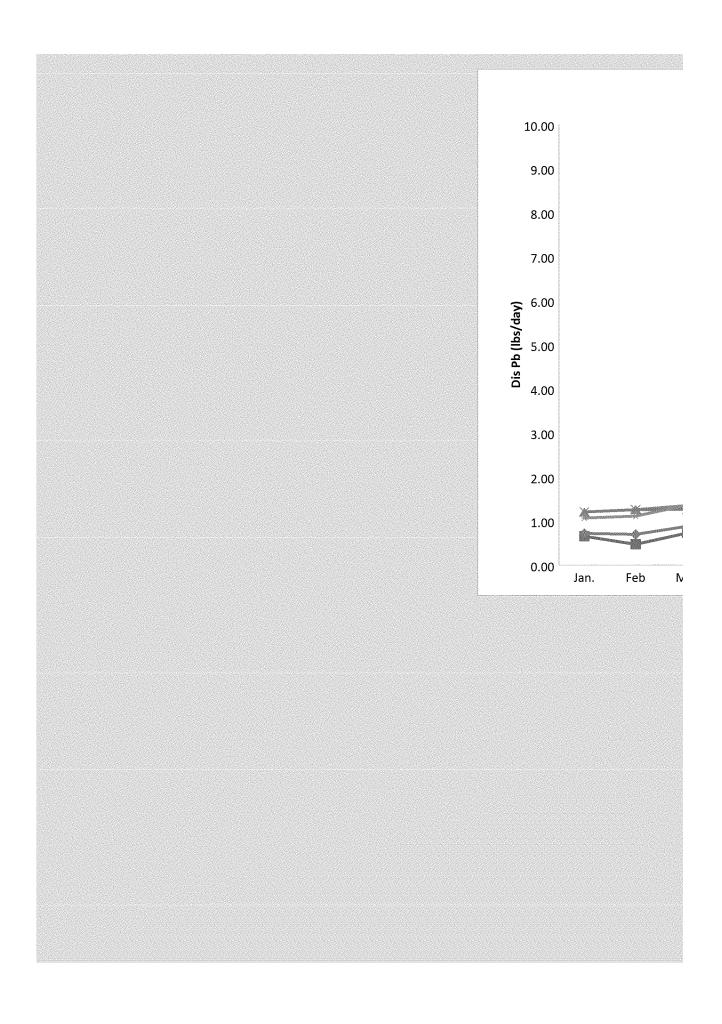
Date	Value
11/2/2010	
11/2/2010	
11/2/2010	
11/2/2010	**17.1**
11/2/2010	
11/2/2010	
11/3/2010	17.2
11/3/2010	19.00
12/7/2010	17.2
1/5/2011	19.2
1/5/2011	19.00
2/11/2011	15.6
3/9/2011	14.3
3/9/2011	15
3/15/2011	15.1
4/6/2011	13.1
5/4/2011	13
5/8/2011	12.1
6/3/2011	6.9
6/14/2011	9
7/5/2011	8
7/19/2011	8.5
8/1/2011	14
8/16/2011	19.2
9/7/2011	17
9/7/2011	18
9/13/2011	21.4
10/7/2011	17
10/18/2011	18.7
11/2/2011	16
11/2/2011	15.4
12/7/2011	16.1
1/5/2012	18.1
2/9/2012	19
3/7/2012	18.7
4/3/2012	13.4
5/2/2012	11
5/15/2012	8.04
6/2/2012	5.2
8/6/2012	14.8
9/4/2012	15.6
10/2/2012	11.2
10/3/2012	14
10/4/2012	10.5
11/7/2012	13.9
12/10/2012	16.5
1/7/2013	15.3

Jan.	Feb	Mar	Apr	May	June	July
Pb	Pb	Pb	Pb	Pb	Pb	Pb
18.1	19	18.7	13.4	11	5.2	16.9
15.3	13.8	14.2	13.9	8.04	7	12.8
10.8	12.5	11.6	24.2	14.2	8.7	
				13.1		
				6.85		

COLOR CODE: 2012   2013   2014

		Average of same day results
2/7/2013	13.8	
3/11/2013	14.2	
4/10/2013	13.9	
5/7/2013	14.2	
5/14/2013	13.1	
6/5/2013	7	
7/7/2013	16.9	
8/4/2013	14.5	
9/10/2013	22.7	
10/2/2013	10.5	
11/8/2013	10.6	
12/13/2013	13.4	
1/8/2014	10.8	
2/7/2014	12.5	
3/5/2014	11.6	
4/10/2014	24.2	
5/6/2014	6.85	
6/6/2014	8.7	
7/1/2014	12.8	
8/1/2014	26.1	
9/5/2014	13.4	
9/23/2014	14.2	
10/2/2014	10.3	
11/7/2014	21.1	
12/5/2014	31.9	

	Aug	Sept	Oct	Nov	Dec
	Pb	Pb	Pb	Pb	Pb
	2.50	20.00	5.50	11.00	8.3
	5.5	27.00	7.30	5.90	1.6
		31.00	6.50	2.9	
		15.00	5.9	14.60	
		17.00			
		12			
		23.00			
		6.1			

	Jan.
Ave. dPb 1991-mid 1996	10.7
85th dPb 1991-mid 1996	19.8
Ave. Hardness 1991-mid 1996	646
Pb TVS 1991-mid 1996	10.9
Ave. monthly flows 1991-mid 1996 (cfs)	12.44
dPb Load 1991-mid 1996 lbs/day	0.72

1995   1996
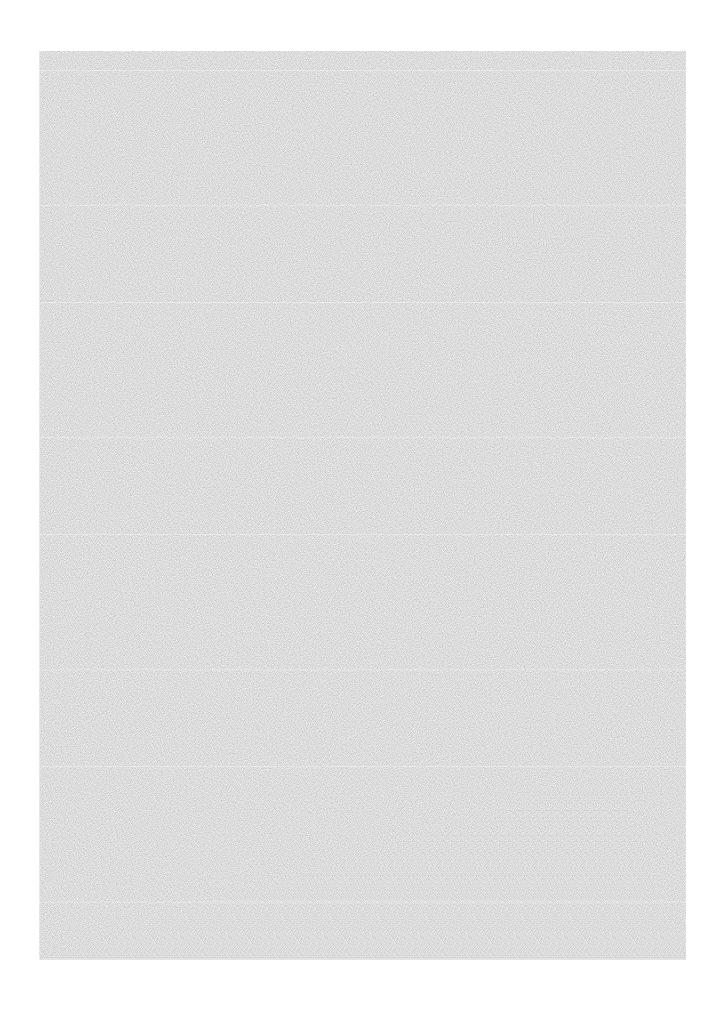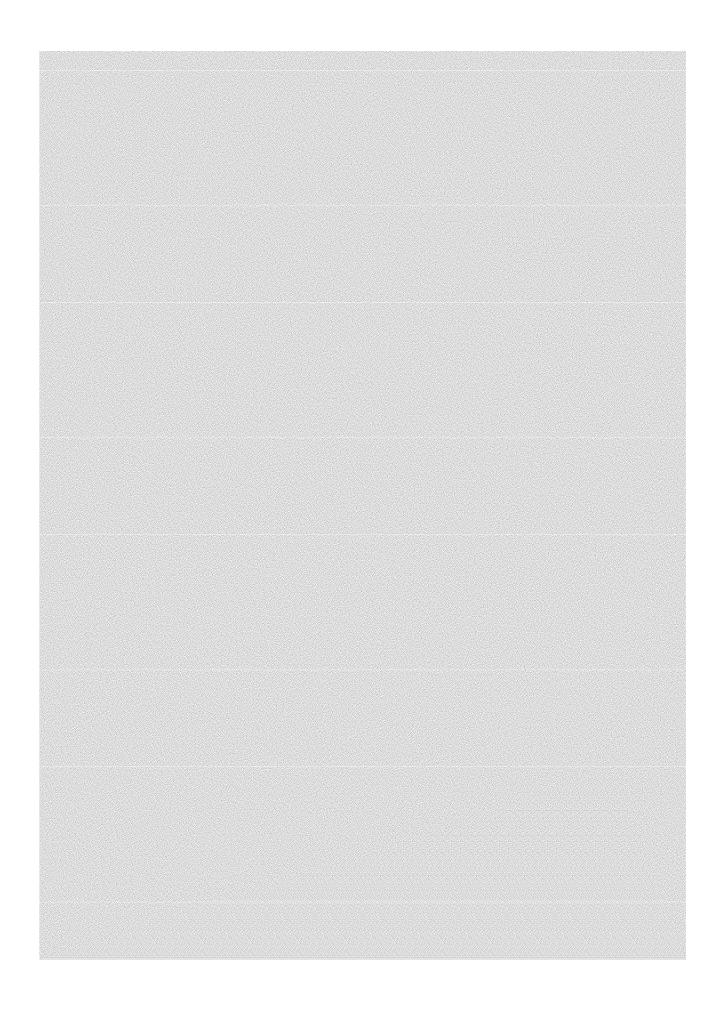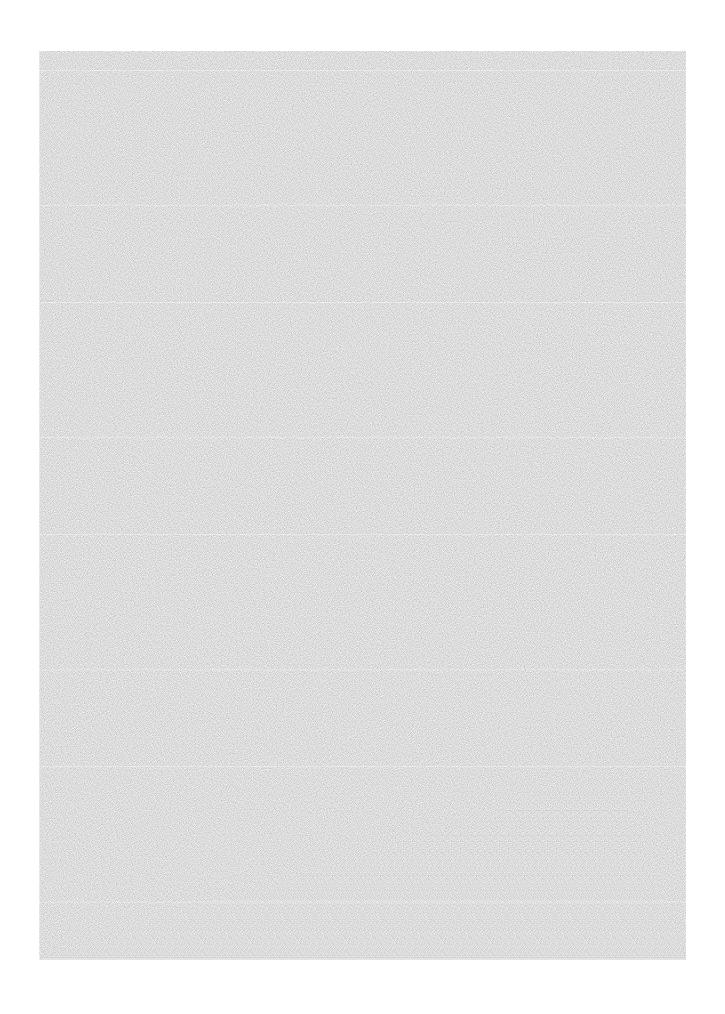
Aug	Sept	Oct	Nov	Dec
Pb	Pb	Pb	Pb	Pb
9.00	11.70	15.00	12.00	2.50
10.00	14.00	7.10	7.20	7.00
14.00	6.40	8.00	9.00	6.00
	27.00	2.50	9.70	8.00
	7.10			

	Jan.
Ave. dPb 1998-2001	9.4
85th dPb 1998-2001	12.4
Ave. Hardness 1998-2001	592
Pb TVS 1998-2001	10.9
Ave. monthly flows 1998-2001 (cfs)	13
dPb Load 1998-2001 lbs/day	0.66

Aug-Nov)

p to 3.0 ug/l.

	Aug Pb	Sept Pb	Oct Pb	Nov Pb	Dec Pb
	25.0	2.5	26.5	13.0	32.5
	27.1	33.4	34.5	37.4	17.2
	15.9	20.2	18.2	13.0	16.1
	16.8	14.5	22.0	16.2	
	18.3	19.3	17.0	16.9	
	14.0	16.8	18.7	18.1	
	19.2	17.5		16.7	
		21.4			

2010 2011

data
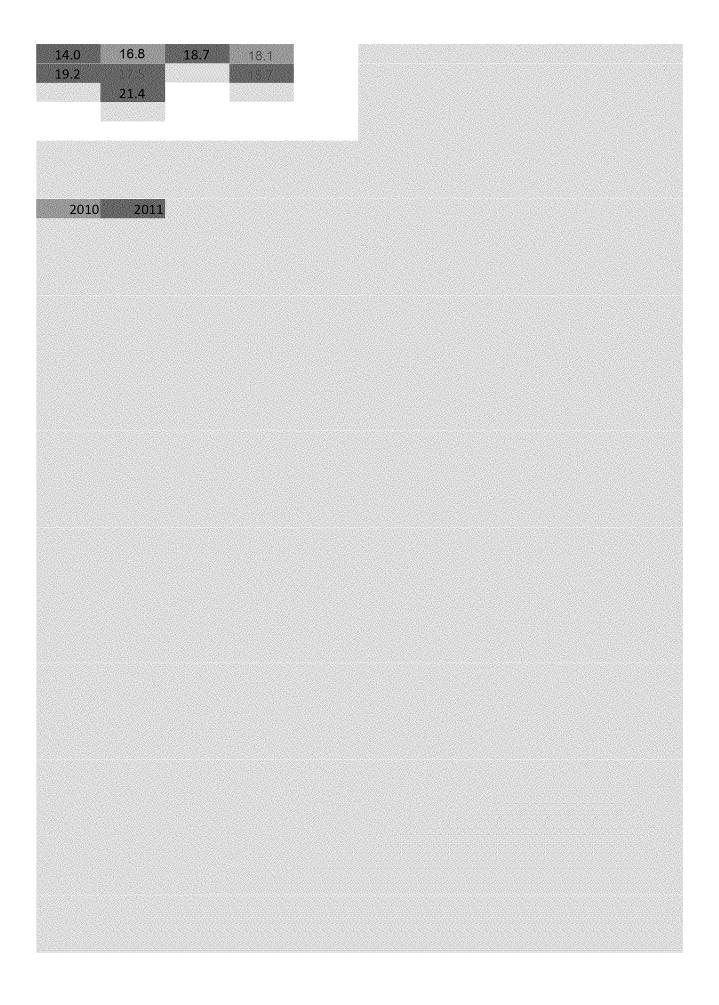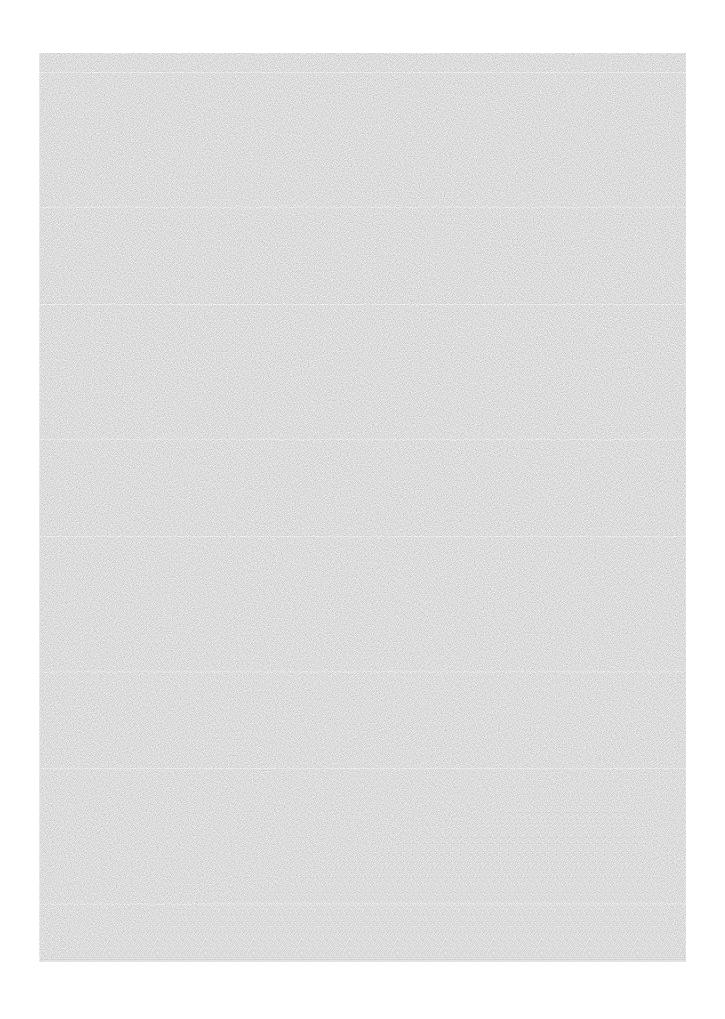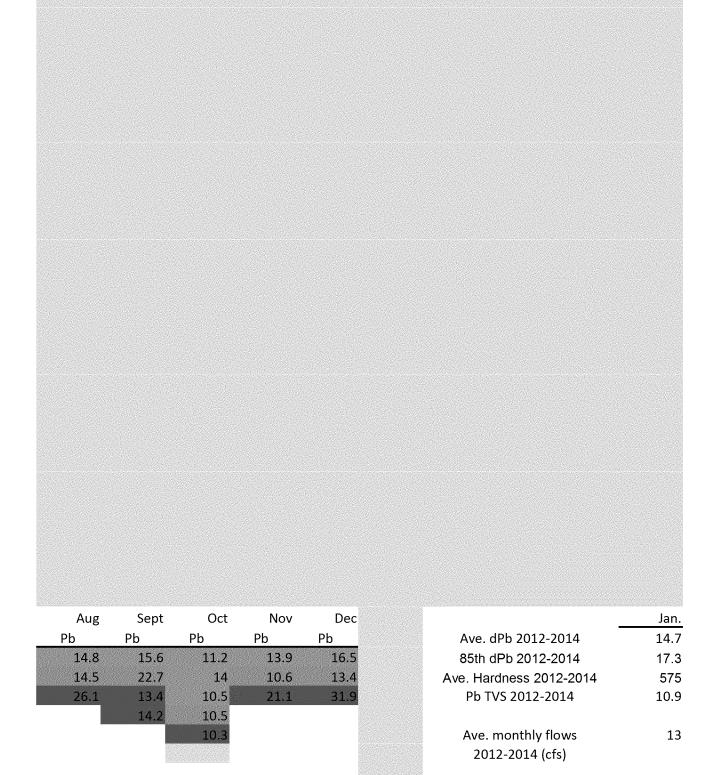
	Jan.
85% DPb 2007-2011 with Questionable DOW data	19.2
85% DPb 2007-2011 without Questionable DOW data	19.2
Ave. Hardness 2007-2011	550
Table Value Std. 2007-2011	10.9
Average Pb 2006-2011 with Questionable DOW data	17.0
Average Pb 2006-2011 without Questionable DOW data	17.0
Ave. monthly flows 2007-2011 (cfs)	13
dPb Load 2007-2011 with Questionable DOW data lbs/day	1.20
dPb Load 2007-2011 without Questionable DOW data	1.20
lbs/day	

	Aug Pb	Sept Pb	Oct Pb	Nov Pb	Dec Pb
	25.0	2.5	26.5	13.0	17.2
	15.9	20.2	18.2	13.0	16.1
	16.8	14.5	22.0	16.2	
	18.3	19.3	17.0	16.9	

14.0	16.8	18.7	18.1
19.2	17.9		15.7
	21.4		

| 2010 | 2011 |

	Aug Pb	Sept Pb	Oct Pb	Nov Pb	Dec Pb
	14.8	15.6	11.2	13.9	16.5
	14.5	22.7	14	10.6	13.4
	26.1	13.4	10.5	21.1	31.9
		14.2	10.5		
			10.3		
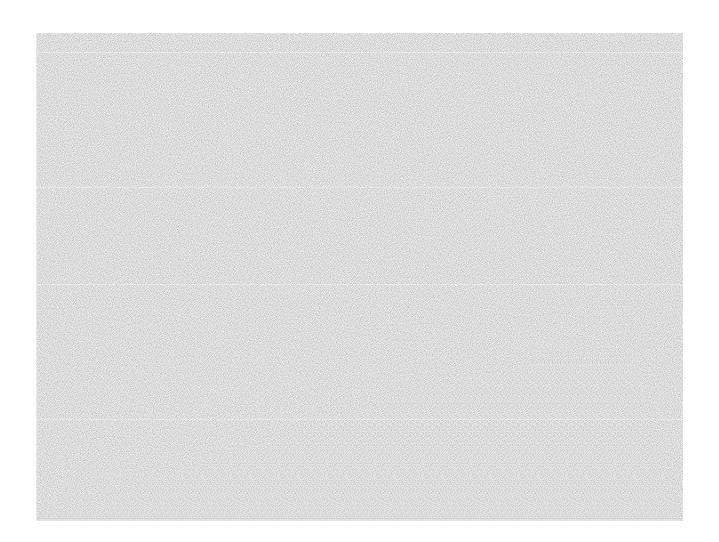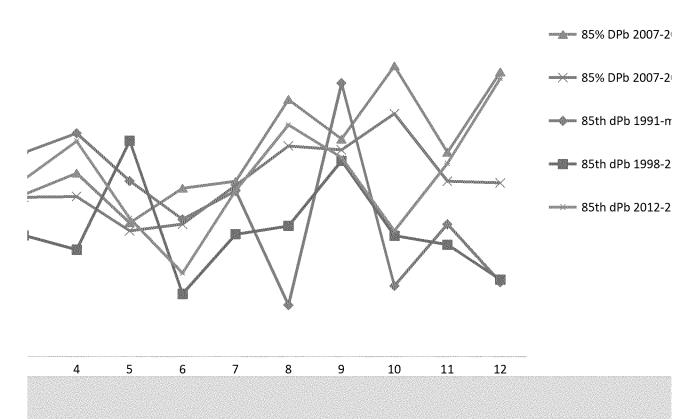
	Jan.
Ave. dPb 2012-2014	14.7
85th dPb 2012-2014	17.3
Ave. Hardness 2012-2014	575
Pb TVS 2012-2014	10.9
Ave. monthly flows 2012-2014 (cfs)	13
dPb Load 2012-2014 lbs/day	1.07
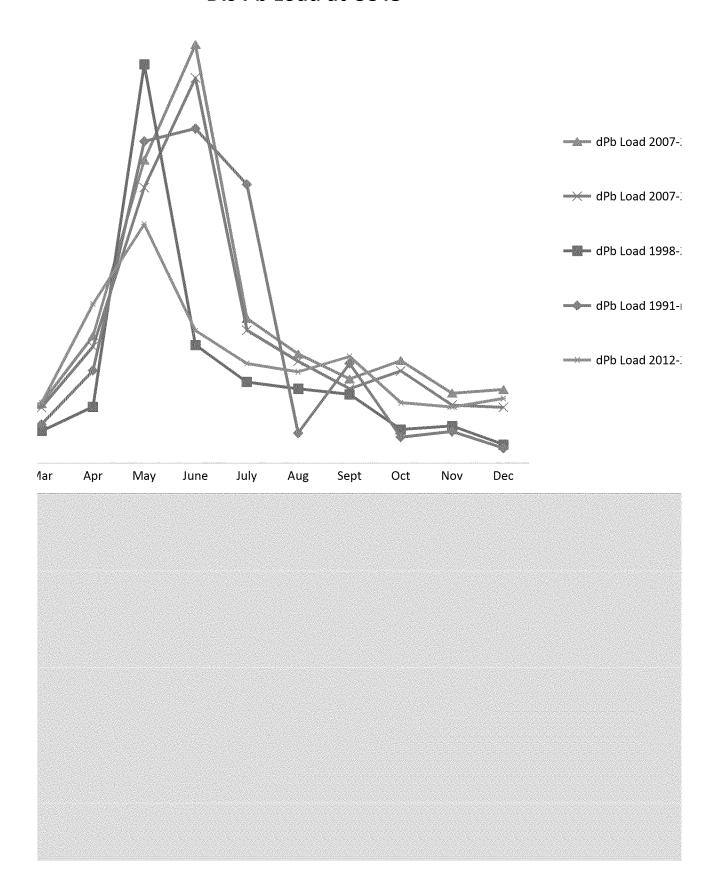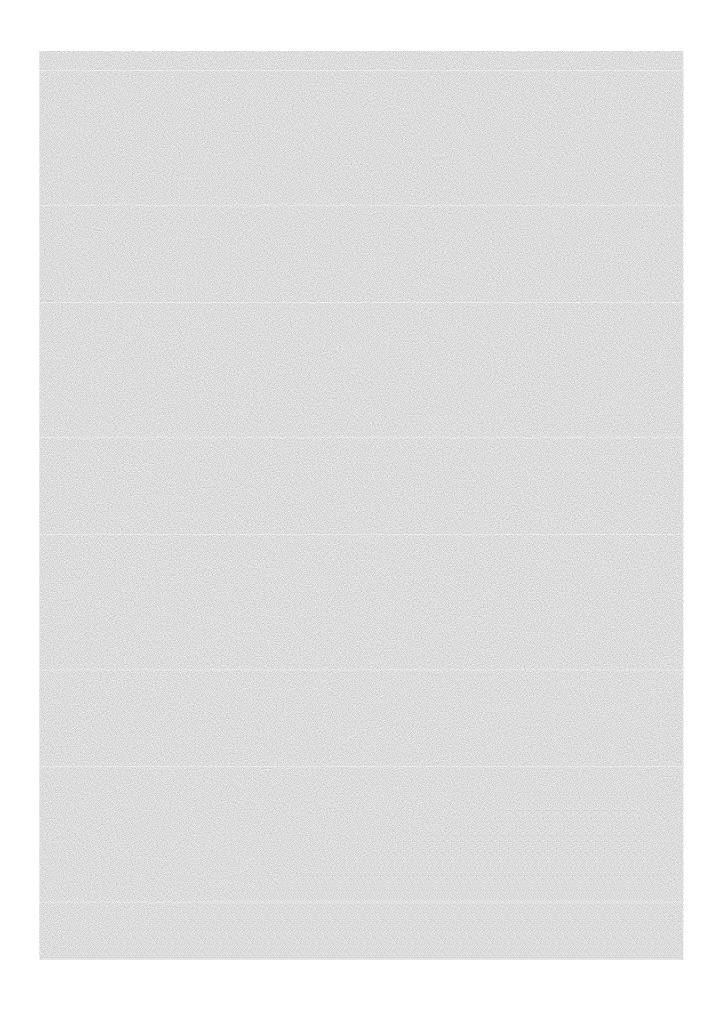
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
9.6	9.9	13.0	12.6	8.9	13.5	4.0	18.9	6.3	8.6
11.5	20.0	21.9	17.2	13.5	16.3	5.1	26.8	6.9	13.0
622	622	381	178	173	182	308	384	577	130
10.9	10.9	10.4	4.7	4.6	4.8	8.4	10.5	10.9	3.3
13.5	16.5	30.1	107.3	158.3	86.8	31.9	22.2	17.4	15.5
0.70	0.88	2.10	7.30	7.59	6.32	0.69	2.26	0.59	0.72

Dis Pb Conc. At CC48
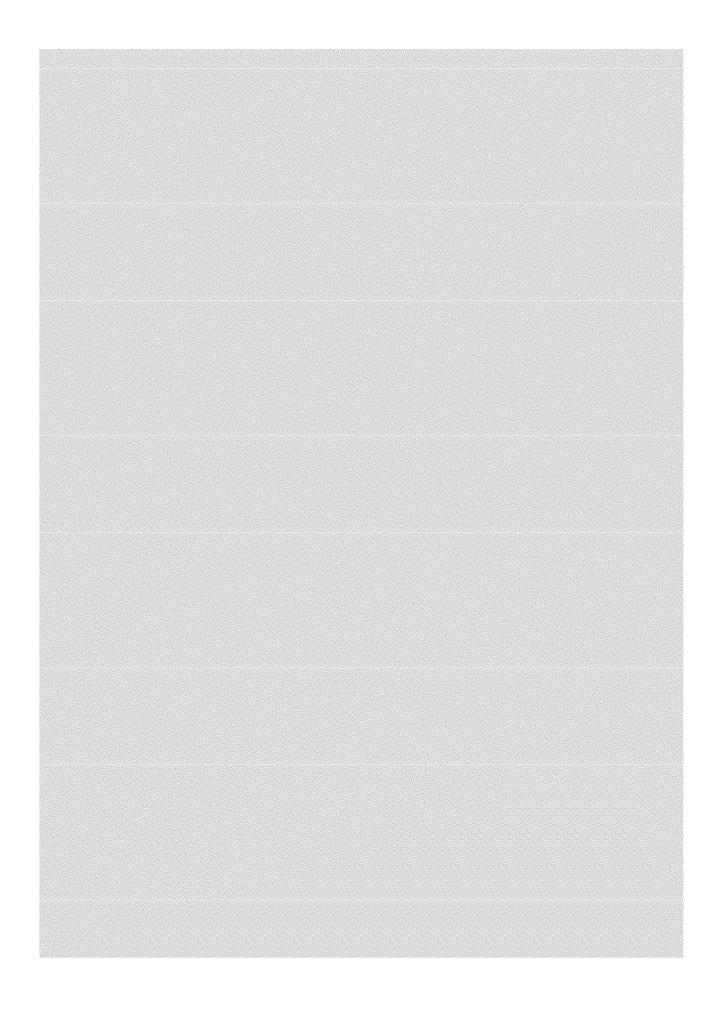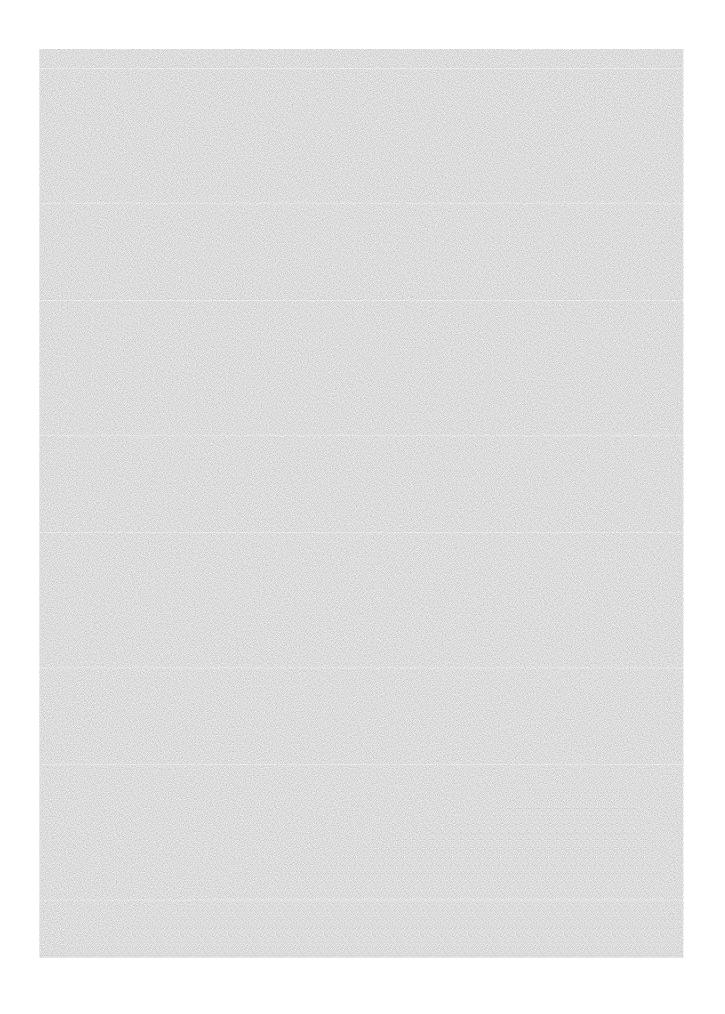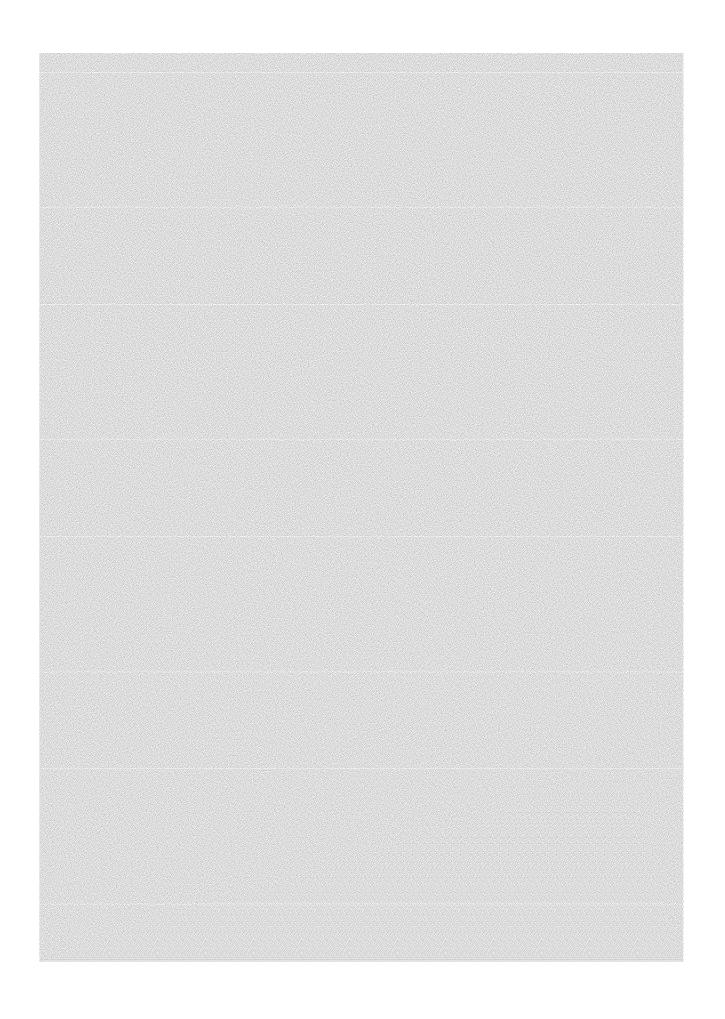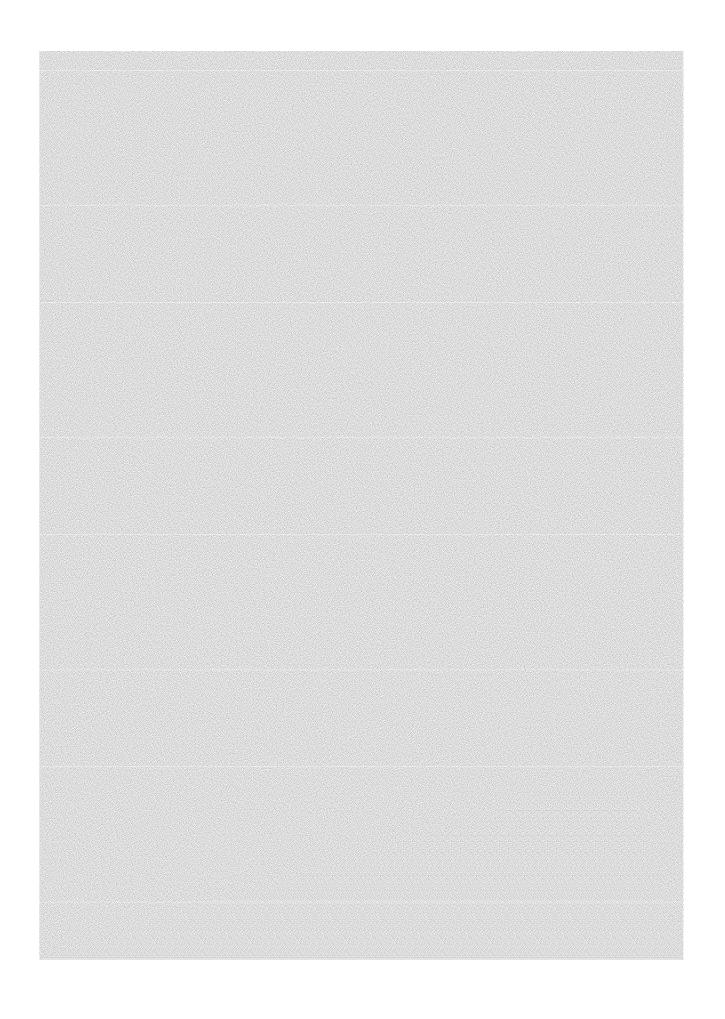
Legend:
- 85% DPb 2007-2
- 85% DPb 2007-2
- 85th dPb 1991-m
- 85th dPb 1998-2
- 85th dPb 2012-2

X-axis: 4 5 6 7 8 9 10 11 12

Dis Pb Load at CC48

Legend:
- dPb Load 2007-:
- dPb Load 2007-:
- dPb Load 1998-:
- dPb Load 1991-:
- dPb Load 2012-:

X-axis: Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec

Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
7.2	9.3	8.3	15.6	4.4	7.0	11.0	13.2	8.2	9.5
9.0	11.9	10.5	21.2	6.1	12.0	12.8	19.2	11.9	11.0
575	503	431	150	135	212	387	414	520	457
10.9	10.9	10.9	3.90	3.47	5.63	10.59	10.9	10.9	10.9
12.3	14.5	28.7	107.8	112.5	48.9	28.4	21.9	17.3	16.5
0.47	0.73	1.28	9.05	2.68	1.84	1.69	1.56	0.76	0.84
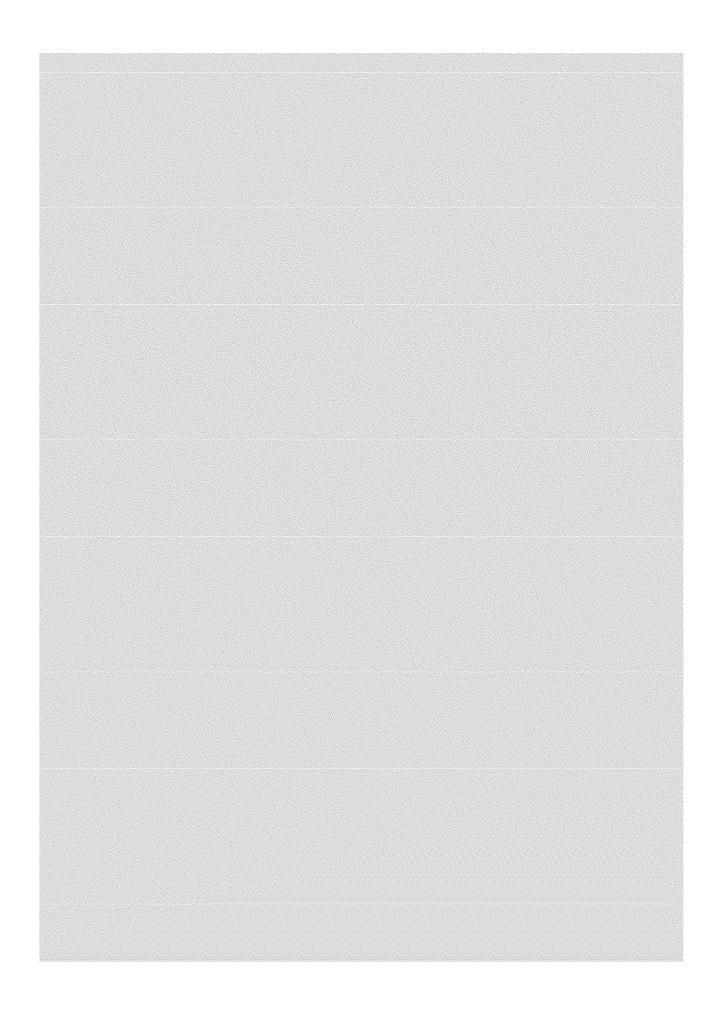
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
23.6	15.9	18.0	13.1	16.5	17.2	25.2	21.3	28.5	20.0
23.6	15.6	15.7	12.3	13.0	16.8	20.7	20.3	23.8	17.2
538	539	439	153	111	234	375	458	456	490
10.9	10.9	10.9	3.99	2.81	6.26	10.24	10.9	10.9	10.9
18.3	16.0	16.0	10.8	11.2	12.5	19.5	18.2	22.8	18.6
18.3	15.0	14.7	9.8	10.3	11.5	18.2	16.0	20.5	15.5
13	16	33	118	158	49	24	19	19	16
1.26	1.35	2.89	6.88	9.50	3.28	2.48	1.91	2.33	1.58
1.26	1.27	2.65	6.25	8.74	3.02	2.31	1.68	2.09	1.32
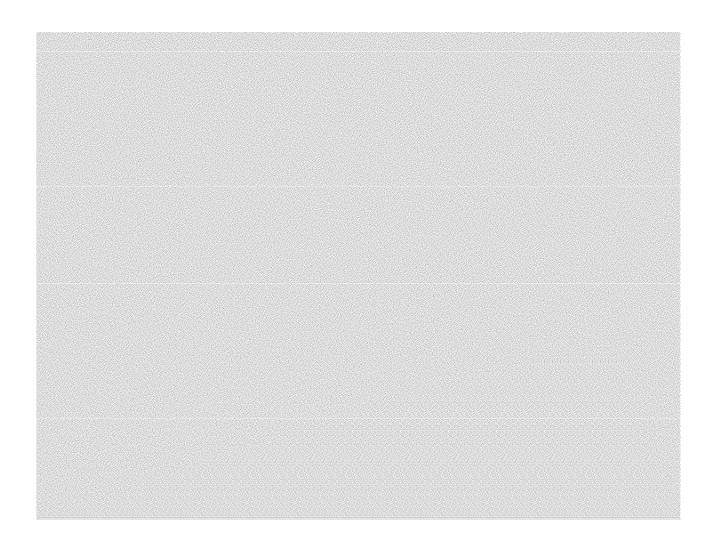
Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
15.1	14.8	17.2	10.6	7.0	14.9	18.5	16.5	11.3	15.2
17.4	17.4	21.1	13.5	8.2	16.3	22.7	19.5	12.3	18.9
559	564	361	168	139	292	375	462	434	479
10.9	10.9	10.9	4.40	3.59	7.90	10.25	10.9	10.9	10.9
14	17	39	95	80	28	21	27	23	16
1.11	1.36	3.61	5.42	3.01	2.26	2.07	2.42	1.37	1.27

Dec
5.0
7.3
596
10.9
12.8
0.34

011 withQuestionable D

011 withoutQuestionab

nid 1996

001

014

2011 withQuestionable

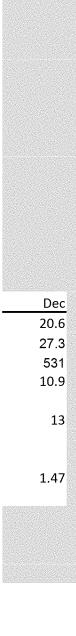2011 withoutQuestional

2001

mid 1996

2014

Dec
5.9
7.6
557
10.9
13.2
0.42

Dec

27.9

17.0

516
10.9
21.9

16.7

14

1.67

1.27

Dec
20.6
27.3
531
10.9
13
1.47